



OCI Company Ltd.

Material Safety Data Sheet

# MSDS

## Sodium Chloride

### Section 1 - Chemical Product and Company Identification

Product name : Sodium Chloride

Recommended use : Laboratory chemicals, Testing, Research and Industrial use

Restriction of use : Not for use other than for non-drinking, testing, research and industrial purposes

Company Identification

Company : OCI Company Ltd.

Address : 94, Sogong-ro, Jung-gu, Seoul, Korea

Tel No. : 82 - 2 - 727 - 9494

### Section 2 - Hazards Identification

- 1) Hazard Classification
- Skin Corrosion/Skin Irritation: 2
  - Serious Eye Damage/Eye Irritation: 2
  - Reproductive toxic: 2
  - Germ cell Mutagenicity: 1B
  - Specific Target Organ Toxicity(Single Exposure): 1
  - Specific Target Organ Toxicity(Repeated Exposure): 1

2) Warning signal

Symbol



Signal word

Warning

Hazard statement

H315 Causes skin irritation

H319 Causes serious eye irritation

H340 May cause genetic defects

H361 Suspected of damaging fertility or the unborn child

H370 Causes damage to organs (Endocrine system)

H372 Causes damage to organs (Liver, endocrine system) through prolonged or repeated exposure

Prevention precautionary statements

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P270 Do not eat, drink or smoke when using this product.  
P321 Specific treatment (see Section 4. on this label).  
P302+P352 IF ON SKIN: Wash with plenty of water  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash before reuse  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P308+P313 IF exposed: Call a POISON CENTER or doctor/physician  
P308+P311 If exposed or concerns, call a poison center or physician  
P314 Get medical advice/attention if you feel unwell.  
P405 Store locked up  
P501 Dispose of contents/container to the related laws.

3) NFPA

Health Rating	2
Flammability Rating	0
Reactivity Rating	0

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### Section 3 - Composition, Information on Ingredients

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Component : Sodium Chloride

CAS No. : 7647-14-5

Content : 100%

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### Section 4 - First Aid Measures

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**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 or doctor/physician 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.

**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

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**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. Cool containers exposed to flames with water until well after the fire is out.

**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**

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**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**

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**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 well-ventilated place.

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**Section 8 - Exposure Controls, Personal Protection**

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**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

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### Appearance

**Physical state:** Solid

**Color:** White

**Odor:** Odorless

**Odor threshold:** No data available.

**pH:** 5.0-8.0

**Melting point/freezing point:** 801 °C

**Initial boiling point and boiling range:** 1413 °C

**Flash Point:** No data available.

**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:** 9.01575 mmHg (at 1026.85°C)

**Vapor density:** No data available.

**Relative density:** 2.16

### Solubility(ies)

**Solubility in water:** 360000 mg/L

**Solubility (other):** No data available

**Partition coefficient (n-octanol/water):** -0.46

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** No data available.

**Molecular Formula:** NaCl

**Molecular weight:** 58.44

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## Section 10 - Stability and Reactivity

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**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:** hydrogen chloride

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## Section 11 - Toxicological Information

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### Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** Causes serious eye irritation.

**Information on toxicological effects**

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

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

LD 50 (Mouse): 4,000 mg/kg

LDLo (Rabbit): 8,000 mg/kg

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

**Inhalation Product:** LC 50 (Rat, 4 h): >10.5 mg/l

**Repeated Dose Toxicity Product:** No data available.

**Skin Corrosion/Irritation Product:** May cause skin irritation.

**Serious Eye Damage/Eye Irritation Product:** Causes serious eye irritation.

**Respiratory or Skin Sensitization Product:** Not a skin 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**

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**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish Product:** LC50 5840mg/l 96hr *Lepomis macrochirus*

**Aquatic Invertebrates Product:** EC50 874mg/l 48hr *Daphnia magna*

**Sea algae :** EC50 2430mg/l 120hr *Nitzschia linearis*, cell counts

**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

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**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

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UN Number: Not regulated

Proper Shipping Not applicable

Hazard Class: Not applicable

Packing Group: Not applicable

Marine Pollutant: No data available.

Safety measures : Not applicable

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### Section 15 - Regulatory Information

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#### US Federal Regulations

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

##### 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

X Acute (Immediate)    Chronic (Delayed)    Fire    Reactive    Pressure Generating

###### 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
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SODIUM CHLORIDE	500 lbs
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###### SARA 313 (TRI Reporting)

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.

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

None present or none present in regulated quantities.

## US State Regulations

### US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

### 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.

## Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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## Section 16 - Other Information

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Sources : KOSHA, National Emergency Management Agency

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