

## Material Safety Data Sheet

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** Sodium Chloride

**Part Number:** multiple

**Chemical Family:** salt

**Manufacturer's Name:** Siemens Industry, Inc. - Water Technologies Business Unit

**Address:** 4669 Shepherd Trail, Rockford, IL 61103

**Product/Technical Information Phone Number:** (815) 877-3041

**Medical/Handling Emergency Phone Number:** Call CHEMTREC at (800) 424-9300  
24 hours a day

**Transportation Emergency Phone Number:** Call CHEMTREC at (800) 424-9300  
24 hours a day

**Issue Date:** February 9, 2001

**Revision Date/Revision Number:** April 2011/Rev 1

### SECTION 2 – COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Sodium Chloride	100%	7647-14-5

### SECTION 3 – HAZARDS IDENTIFICATION

**Appearance & Odor:** White crystals.

**Emergency Overview:** Not expected to be a health hazard. Large doses can cause skin and eye irritation, vomiting, diarrhea, and prostration. This product is non-flammable.

**Fire & Explosion Hazards:** This product is non-flammable and non-combustible.

**Primary Route(s) of Exposure:** Eye contact, skin contact, ingestion, or inhalation of dust are all possible routes of entry.

**Inhalation – Acute Effects:** Inhalation of dust may cause mild irritation to mucous membranes, nose and throat.

**Skin Contact – Acute Effects:** Sodium chloride may cause skin irritation.

**Eye Contact – Acute Effects:** Sodium chloride will cause eye irritation. Sodium chloride at concentrations much above the concentration in tears causes a stinging sensation on contact with the eye.

**Ingestion – Acute Effects:** Ingestion of very large doses can cause nausea, vomiting, diarrhea, muscular twitching, inflammation of the gastrointestinal tract, dehydration and congestion.

### SECTION 4 – FIRST AID MEASURES

**Inhalation First Aid:** Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention if symptoms occur.

## Material Safety Data Sheet

**Skin Contact First Aid:** Remove clothing from affected area and wash skin vigorously with flowing water and soap. Clothing should be washed before reuse. Obtain medical assistance if irritation develops. DO NOT instruct person to neutralize affected skin area.

**Eye Contact First Aid:** Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Seek medical assistance if irritation develops. DO NOT instruct person to neutralize.

**Ingestion First Aid:** Vomiting may need to be induced if large amounts have been ingested and if directed by a physician or poison control center. DO NOT have unqualified personnel induce vomiting.

**Medical Conditions Aggravated:** None determined.

**Note to Physician:** No specific antidote, treat patient symptomatically.

### SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point/Method:** not applicable

**Auto Ignition Temperature:** not applicable

**Upper/Lower Explosion Limits:** not applicable

**Extinguishing Media:** None required.

**Fire Fighting Procedures:** None determined, product is non-flammable.

**Fire & Explosion Hazards:** This product is non-flammable and non-combustible.

**Hazardous Products of Decomposition and/or Combustion:** None

**NFPA Ratings:**

HEALTH- 1    FLAMMABILITY- 0    REACTIVITY- 0    OTHER- none

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

### SECTION 7 – HANDLING AND STORAGE

**Handling:** Transport in dry equipment.

**Storage:** Store in a dry location.

**General Comments:** none

## Material Safety Data Sheet

### SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

**Respiratory Protection:** For conditions of use where exposure to the dust is apparent, a NIOSH approved dust/mist respirator should be worn. For emergencies, a self contained breathing apparatus should be worn.

**Skin Protection:** If deemed necessary, wear protective gloves and clean body covering.

**Eye Protection:** Wear chemical safety glasses. Contact lenses should not worn when working with this material.

**Ventilation Protection:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system shall be considered.

**Other Protection:** Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

**Exposure Limits:**

No exposure limits have been developed.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance & Odor:** White crystals.

**Vapor Pressure:** not determined

**Vapor Density (Air=1):** not determined

**Boiling Point:** not determined

**Melting Point:** not determined

**Specific Gravity:** 2.165

**Solubility in Water:** 36g/100 cc water

**Volatile Percentage:** not determined

**pH:** not determined

**Flash Point/method:** not applicable

**Auto Ignition Temperature:** not applicable

**Upper/Lower Explosion Limits:** not applicable

**Other:** not applicable

### SECTION 10 – STABILITY AND REACTIVITY

**Stability:** This product is considered stable under the specified conditions of storage, shipment and use.

**Incompatibilities:** Stable and inert under normal conditions. Will react with strong acids (to generate HCL) and strong oxidizing agents (to generate CL2).

**Polymerization:** Hazardous polymerization will not occur.

**Decomposition:** There are no hazardous decomposition products.

## Material Safety Data Sheet

**Conditions to Avoid:** Keep away from strong acids and strong oxidizing agents.

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Inhalation – Acute:** Inhalation of dust may cause mild irritation to mucous membranes, nose and throat.

**Inhalation – Chronic:** There are no known chronic inhalation effects.

**Skin Contact – Acute:** Sodium chloride may cause skin irritation. Mild skin irritation in rabbits developed after 500mg was administered in a 24-hour period.

**Skin Contact – Chronic:** There are no known chronic dermal effects.

**Eye Contact – Acute:** Sodium chloride will cause eye irritation. Sodium chloride at concentrations much above the concentration in tears causes a stinging sensation on contact with the eye. Moderate eye irritation in rabbits developed after 100 mg was administered in a 24-hour period.

**Ingestion – Acute:** Ingestion of sodium chloride may cause nausea, vomiting, diarrhea, muscular twitching, inflammation of the gastrointestinal tract, dehydration and congestion. Dehydration and congestion can occur in most internal organs, particularly the meninges and brain. With dehydration comes a rise in body temperature and a metabolic acidosis. Death may occur from respiratory failure secondary to an acute encephalopathy. Sodium chloride affects the blood pressure in humans. The human oral TDLo is 12357 mg/kg. Ingestion of 0.5-1 g/kg can be toxic to most people. The oral LD50 (rat) is 3000 mg/kg.

**Ingestion – Chronic:** see INGESTION-Acute

**Carcinogenicity/Mutagenicity:** There are no known carcinogenic/mutagenic effects.

**Reproductive Effects:** There are no known reproductive effects.

**Neurotoxicity:** There are no known neurotoxic effects.

**Other Effects:** There are no other known toxic effects.

**Target Organs:** Target organs include the eyes, skin and gastrointestinal tract.

### SECTION 12 – ECOLOGICAL INFORMATION

This material, in its original state, is not harmful to the environment.

### SECTION 13 – DISPOSAL CONSIDERATIONS

Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all

## Material Safety Data Sheet

waste for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than federal regulations.

### SECTION 14 – TRANSPORTATION INFORMATION

**DOT Shipping Description:** Sodium Chloride (Not DOT Regulated)

### SECTION 15 – REGULATORY INFORMATION

CERCLA SECTION 103 (40CFR302.4): no RQ: none

SARA SECTION 302 (40CFR355.30): no

SARA SECTION 304 (40CFR355.40): no

SARA SECTION 313 (40CFR372.65): no

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: no CHRONIC: no FIRE: no REACTIVE: no SUDDEN RELEASE: no

OSHA PROCESS SAFETY (29CFR1910.119): no

CALIFORNIA PROPOSITION 65: no

### SECTION 16 – OTHER INFORMATION

**Disclaimer:** The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

**Revision Indicator:** April 2011, Revised Section 1 (Updated manufacturer's name)