

Material Safety Data Sheet

MSDS 008a Revised 3/15/2002

1. PRODUCT IDENTIFICATION Emergency Phone Number: 312/807-2000

Chemical Name: Sodium Chloride Common Name: Salt

CAS Number: 7647-14-5 **Chemical Formula:** NaCl

Product Names (lodized Salt with Calcium Silicate anti-caking agent):

Foodservice lodized Salt (4lb. carton) lodized Salt (4 oz. paper shaker and 26 oz. can)

2. COMPOSITION / INFORMATION ON INGREDIENTS

	Formula	CAS#	%
Sodium Chloride	NaCl	7647-14-5	>99
Calcium Silicate	CaO / SiO ₂	1344-95-2	<1.0
Dextrose*	$C_6H_{12}O_6$	492-62-6	< 0.04
Potassium Iodide	KI	7681-11-0	< 0.01
Sodium Bicarbonate	$NaHCO_3$	144-55-8	< 0.01

^{*} See MSDS 8b for 4 oz plastic shakers with sodium thiosulfate

3. HEALTH HAZARD DATA

Effects of Overexposure:

Ingestion: Very large doses can cause vomiting, diarrhea, and

prostration. Oral toxicity rat LD₅₀: 3000 mg / kg.

Skin Contact: Mild skin irritant.

Eye Contact: Moderate irritant.

Inhalation: Inhalation of dust may cause mild irritation to mucous membranes,

nose and throat. Symptoms may include coughing, dryness and sore throat.

Acute Systemic Effects: Dehydration and congestion may occur in internal organs. Hypertonic salt solutions

can produce inflammatory reactions in the gastrointestinal tract.

Chronic Systemic Effects: No information found.

4. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if

irritation persists.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, get medical advice.

Hazard Rating

(0=None, 4=Extreme)

Health

• Flammability

• Reactivity

5. FIRE AND EXPLOSION HAZARD DATA

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

6. REACTIVITY DATA

Stability: X Stable Unstable

Stable and inert under normal conditions. No hazardous polymerization can occur.

Boiling Point (760 mm Hg):

1413°C (2575°F)

No hazardous decomposition products or conditions.

Materials to Avoid: Will react with strong acids (to generate hydrogen chloride) and strong oxidizing agents

(to generate chlorine gas).

7. PHYSICAL DATA

Appearance: Colorless or white crystals **pH**: 8 - 9

Odor: None % Non-Volatile: 100

Density (Water = 1): 2.165 g/cc **Vapor Pressure (mm Hg):** $1 \text{ mm} @ 865 ^{\circ}\text{C} (1589 ^{\circ}\text{F})$

Solubility in Water: 36 g / 100 cc water

at 20°C (68°F)

Calcium silicate is insoluble

in water

8. SPILL OR LEAK PROCEDURES

Response to Small Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet

sweeping may be used to avoid dust dispersal.

Response to Large Spills: Shovel and sweep up; containerize for reclamation or disposal.

Hazards to be Avoided: None.

Reportable Quantity: Check your state for requirements.

Waste Classification: Some states have set maximum limits on chlorides in waste effluent.

Disposal Methods: Whatever cannot be saved for reclamation may be delivered to an approved

waste disposal facility or if local ordinances allow, can be dissolved in sufficient amounts of water to meet water quality standards, and flushed down a sewer

drain. Ensure compliance with local, state and federal regulations.



9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: For conditions of use where exposure to the dust is apparent, a NIOSH approved

dust/mist respirator may be worn. For emergencies, a self-contained breathing

apparatus may be necessary.

For Hands, Body: If deemed necessary, wear protective gloves and clean body-covering clothing.

For Eyes: If deemed necessary, use chemical safety glasses or goggles. Contact lenses should

not be worn when working with this material. Eye wash fountain or water for

eyewashing should be available.

Ventilation: 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

should be considered.

10. SPECIAL PRECAUTIONS

Transport in dry equipment; store in dry location. Handling procedures should minimize generation of airborne dust. Dust respirator as appropriate where exposure exceeds the 10 mg/m² ACGIH TLV for nuisance dust.

11. LABELING INFORMATION

DOT Shipping Name: Salt (common), **UN No.:** Not applicable

sodium chloride

Additional Product Label: Not applicable

DOT Label: Not applicable

Warning: None

12. USER'S RESPONSIBILITY

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.

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