

Material Safety Data Sheet

MSDS 001, Revised 03/13/2006

Emergency Phone Number: 312/807-2000

1. PRODUCT IDENTIFICATION

Chemical Name: Sodium Chloride

Common Name: Salt

CAS Number: 7647-14-5

Chemical Formula: NaCl

Product Names (Salt w/o additives):

All Purpose Purex Salt	Kleer Fine Salt	Rock Salt for Making Ice Cream
Canning & Pickling Salt	Kleer Granulated Salt	Safe-T-Salt (bagged only)
Culinox 999 Chemical Grade Salt	Mill Run Salt	Select Extra Coarse Rock Salt
Culinox 999 Fine Salt	Northern Fine +20 Rock Salt	Service Pack Salt (all)
Culinox 999 Food Grade Salt	(Northern Rock) Feed Mixing	Ship n' Shore Rock Salt
Evaporated Granulated Salt	Salt, F & R	Stock Salt
Evaporated Salt Pellets	Purex Salt	USP Sodium Chloride
Fine Mixing Salt	Purex Select Salt	White Crystal Rock Salt (all)
H.G. Blending Salt	Reagent Grade Sodium Chloride	White Crystal Solar Salt (all)
Industrial Crude Solar Salt	Refined Sea Salt	White Crystal Water
KD Crude Solar Salt	Rock Pretzel Salt	Softening Solar Salt (all)

2. COMPOSITION / INFORMATION ON INGREDIENTS

	Formula	CAS #	%
Sodium Chloride	NaCl	7647-14-5	100*

*Including small quantities of naturally occurring moisture and calcium/magnesium salts

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.

Hazard Rating

(0=None, 4=Extreme)

- ① Health
- ① Flammability
- ① Reactivity

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.

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: ☒ **Stable** ☐ **Unstable**

Stable and inert under normal conditions. No hazardous polymerization can occur.
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:	About 7
Odor:	None	% Non-Volatile:	100
Density (Water = 1):	2.165 g / cc	Vapor Pressure (mm Hg):	1 mm @ 865°C (1589°F)
Solubility in Water:	36 g / 100 cc water at 20°C (68°F)	Boiling Point (760 mm Hg):	1413°C (2575°F)

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), sodium chloride	UN No.:	Not applicable
DOT Label:	Not applicable	Additional Product 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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