

# K+S Windsor Salt Ltd./K+S Sel Windsor Ltée

## Material Safety Data Sheet

Eff. Date: January 1, 2015  
Emergency Phone Number: 312-807-2000  
(Morton Salt Co.)

### (1) PRODUCT INFORMATION

Chemical Name: Sodium Chloride Salt      Product Name: Safe-T-Salt  
Supplier: see above  
Common Name: Salt, Rock Salt, Halite  
Product Use: Deicing  
CAS Number: 7647-14-5  
Chemical Formula: NaCl

### (2) HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV-TWA</u>
None					

This is not a hazardous or controlled product as defined under Canada's WHMIS regulations.  
This is not a hazardous or controlled product as defined under Canada's Hazardous Products Act and Controlled Products Regulations.  
All ingredients are found in Canada's Domestic Substances List.  
This product is not hazardous as defined by Canada's Transportation of Dangerous Goods Act.  
This product is regarded as GRAS (generally recognized as safe) by the U.S. Food & Drug Administration.  
No occupational exposure limits have been established by OSHA, ACGIH or NIOSH for this product.

NFPA RATINGS (Scale 0-4):      Health= 1    Fire= 0    Reactivity= 0

### (3) PHYSICAL DATA

Boiling Point (760mm Hg): 1,413° C (2,575° F)      Specific Gravity (Water= 1): 2.165  
Vapour Pressure (mm Hg): 1 mm @ 865° C (1,589° F)      % non-volatile: 100  
Vapour Density (Air = 1): N/A      Evaporation rate (ether= 1): N/A  
Solubility in Water: 36 g/100 cc water at 20° C(68° F)      pH: 5.5 - 9.5  
Appearance: Colorless or white crystals (depending on additives)  
Rock salt may have dark impurities  
Odour: none  
Melting Point: 801° C (1,474° F)

### (4) FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A      Flammable Limits    LEL: N/A      UEL: N/A  
This product is non-combustible  
Extinguishing Media: None required  
Special Fire Fighting Procedures: None  
Unusual Fire & Explosion Hazards: None  
Hazardous Decomposition Products: None

## (5) REACTIVITY DATA

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Stability:	Stable under normal temperatures and pressures
Incompatibility (Materials to Avoid):	Stable and inert under normal conditions. Will react with strong acids (to generate HCl) and strong oxidizing agents (to generate Cl <sub>2</sub> ).
Can Hazardous Polymerization occur:	No
Hazardous Decomposition Products and Conditions:	None

## (6) TOXICOLOGICAL PROPERTIES

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Oral Toxicity:	Oral rat LD50: 3,000 mg/kg (RTECS, 1986)
Dermal Toxicity:	Skin irritation rabbit: 500 mg/24 hr. Mild (RTECS, 1986)
Eye:	Eye irritation rabbit: 100 mg/24 hr. Moderate (RTECS, 1986)
Inhalation:	No information found
Chronic Toxicity:	No information found
Mutagenesis:	Mutation references cited (RTECS, 1986)
Effects of Overexposure:	
Ingestion:	Very large doses can cause vomiting, diarrhea, and prostration.
Skin Contact:	Not expected to be a health hazard.
Eye Contact:	May cause irritation.
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

## (7) PREVENTIVE MEASURES

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### 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 known.
Reportable Quantity:	Check your local requirements.
Waste Classification:	Some jurisdictions 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, provincial/state and federal regulations.

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

For Eyes: Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

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.

**SPECIAL PRECAUTIONS:**

Other Precautions: Transport in dry equipment; store in dry location.

**LABELLING INFORMATION:**

DOT Shipping Name: Salt (common), sodium chloride  
DOT Label: Not applicable  
UN Number: Not applicable  
Other contents of product label: Not applicable  
Warning: None

**(8) EMERGENCY AND FIRST AID PROCEDURES**

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

**(9) PREPARED BY:**

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**USERS RESPONSIBILITY**

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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.

**DISCLAIMER OF LIABILITY**

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The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, provincial/state, and local laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any



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