


# POLLARD HIGHWAY PRODUCTS

## Material Safety Data Sheet

**LIQUID SODIUM CHLORIDE**  
23%

### A. PRODUCT INFORMATION

<b>TRADE NAME (PRODUCT IDENTIFIER):</b> Sodium Chloride Brine	<b>CLASSIFICATION &amp; SYMBOL:</b> Class D2B 	
<b>CHEMICAL NAME AND/OR SYNONYM:</b> Liquid Sodium Chloride	<b>FORMULA:</b> 23.3% +/- .3% NaCl Solution	<b>CAS NO:</b> 7647-14-5 (anhydrous)
<b>PRODUCT USE:</b> Deicer, freeze-proofing of ores and aggregates, thawing agent.		
<b>MANUFACTURER/IMPORTER:</b> Pollard Highway Products Box 280 Harrow, Ontario N0R 1G0	<b>SUPPLIER/DISTRIBUTOR:</b> Pollard Highway Products Box 280 Harrow, Ontario N0R 1G0	
<b>EMERGENCY TELEPHONE NO:</b> 800-265-5619		

### B. PREPARATION INFORMATION

<b>PREPARED BY:</b> Pollard Highway Products Harrow, Ontario Kevin Pollard	<b>PREVIOUS ISSUE DATE:</b>
	<b>CURRENT ISSUE DATE:</b> 01-01-2009

### C. TOXICOLOGICAL PROPERTIES

<b>INHALATION:</b> Vapours are unlikely due to physical properties. Mists may irritate nose, throat and lungs.	
<b>INGESTION:</b> Low in toxicity. May irritate gastrointestinal tract and cause nausea and vomiting.	
<b>SKIN:</b> May cause skin irritation.	
<b>EYES:</b> May irritate or burn eyes.	
<b>ACUTE TOXICITY:</b> Moderate toxic LD <sub>50</sub> (oral-rat) 1000 mg/kg. Anhydrous basis LD <sub>50</sub> (oral-mouse) 1940 mg/kg Anhydrous basis	<b>EXPOSURE LIMITS:</b> American Conference of Governmental Industrial Hygienists (ACGIH) Threshold limit value – Time Weighted Average (TLV-TWA) guideline for nuisance particulate (liquefied mist) 10 mg/m <sup>3</sup>
<b>CHRONIC TOXICITY:</b> Not applicable	

## D. PHYSICAL DATA

<b>MATERIAL IS AT NORMAL CONDITIONS:</b> LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> GAS <input type="checkbox"/> <input type="checkbox"/>	<b>APPEARANCE AND COLOR:</b> Clear to slightly turbid liquid	<b>ODOR THRESHOLD:</b> Odorless
<b>BOILING POINT:</b> 106°C <b>FREEZING POINT:</b> -21 °C <b>(MELTING POINT)</b>	<b>SPECIFIC GRAVITY:</b> <b>(H<sub>2</sub>O = 1)</b> 23% NaCl 1.175 @ 27C 24% NaCl 1.184 25% NaCl 1.192	<b>VAPOR DENSITY:</b> <b>(AIR =1)</b> Not applicable
<b>SOLUBILITY IN WATER:</b> Complete	<b>pH</b> Neutral to slightly alkaline	<b>VAPOR PRESSURE:</b> <b>(mm Hg @ 20°C) 14</b> <b>(PSIG)</b>
<b>EVAPORATION RATE:</b> (Ether = 1.0)  Not applicable	<b>% VOLATILES BY VOLUME:</b> (AT 20°C) Not applicable	<b>MOLECULAR WEIGHT:</b> 110.99 as anhydrous CaCl <sub>2</sub>
		<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b> Not available

## E. REACTIVITY DATA

<b>STABILITY:</b> UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>	<b>CONDITIONS TO AVOID:</b> Not applicable
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b> Reacts with most nonnoble metals such as iron or steel, bromine, or trifluoride. Potentially explosive reaction with dichloromaleic anhydride + urea. Electrolysis of mixtures with nitrogen compounds may form explosive nitrogen trichloride.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Toxic fumes of sodium oxide.	
<b>HAZARDOUS POLYMERIZATION:</b>  WILL NOT OCCUR <input checked="" type="checkbox"/> MAY OCCUR <input type="checkbox"/>	<b>OTHER PRECAUTIONS:</b>

## F. FIRE OR EXPLOSION HAZARD

<b>CONDITIONS OF FLAMMABILITY:</b> Not applicable	<b>FLASH POINT:</b> METHOD NA
<b>HAZARDOUS COMBUSTION PRODUCTS:</b> None	
UPPER FLAMMABLE LIMIT: NA LOWER FLAMMABLE LIMIT: NA AUTOIGNITION TEMPERATURE: °C	<b>EXPLOSION HAZARDS:</b> See Section E-Incompatibility.
<b>SENSITIVITY TO MECHANICAL IMPACT:</b> Not applicable	
<b>SENSITIVITY TO STATIC DISCHARGE:</b> Not applicable	
<b>FIRE EXTINGUISHING PROCEDURES:</b> Use extinguisher media appropriate for surrounding fire. For fire fighting wear NIOSH-approved self-contained breathing apparatus.	

## G. HAZARDOUS INGREDIENTS (MIXTURES ONLY)

MATERIAL OR COMPONENT/C.A.S. #	CONCENTRATION	HAZARD DATA
Not applicable		

## H. PREVENTIVE MEASURES

### PERSONAL PROTECTIVE EQUIPMENT:

#### RESPIRATORY PROTECTION:

For misty conditions, wear NIOSH-approved mist respirator. Respirator should not contain any metals corrodible by these solutions.

#### EYES AND FACE:

For misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hard hat. Under these conditions, do not wear contact lenses.

#### HANDS, ARMS, AND BODY:

As a minimum, wear long-sleeve shirt and trousers, impervious boots, gloves and apron, for routine product use.

#### STORAGE:

Keep container closed. Protect from physical damage. Do not store in metals which this solution corrodes. See Section E.

#### NORMAL HANDLING:

Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.

### ENGINEERING CONTROLS:

Ventilation: Provide general and/or local exhaust ventilation to maintain mist or vapor levels below exposure limits.

Eye wash facility should be provided in storage and general work area.

### ENVIRONMENTAL:

#### DEGRADABILITY:

Not applicable

#### AQUATIC TOXICITY:

Harmful to aquatic life at concentrations greater than 500 ppm. NaCl does not bioaccumulate. TL<sub>m</sub>96>1000 mg/l

#### SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT):

Dilute small spills cautiously with plenty of water. Mop into metal drum and cover. (Many metals are slowly corroded by these solutions.) Cautiously spray residue with plenty of water. **Large spills:** dike up with any available absorbent (commercial, sand, etc.). Pump into same containers, and treat as above.

#### WASTE DISPOSAL:

Consistent with the requirements of local waste disposal authorities.

CANADIAN SHIPPING INFORMATION:

<b>TDGA CLASS:</b> Not applicable	<b>PIN:</b>	<b>LABEL:</b>
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## I. FIRST AID MEASURES

**INHALATION:**

Promptly remove to fresh air. Get medical attention if any discomfort from inhalation.

**INGESTION:**

If conscious, immediately give 2 to 4 glasses of water, and induce vomiting under medical supervision. Get medical attention promptly.

**SKIN:**

Remove contaminated clothing. Wash with plenty of soap and running water. Get medical attention if irritation persists.

**EYES:**

Flush eyes promptly with plenty of running water, continuing for at least 15 minutes. Get medical attention.

**THIS MATERIAL SAFETY DATA SHEET IS OFFERED FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION AS REQUIRED BY FEDERAL HAZARDOUS PRODUCTS ACT AND RELATED LEGISLATION. THE INFORMATION IS BELIEVED TO BE ACCURATE BUT GENERAL CHEMICAL CANADA LTD. PROVIDES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED.**