


## PERFORMANCE PRE-TREATED SALT

LSECTION 1 - IDENTIFICATION	
Product identifier:	PERFORMANCE PRE-TREATED SALT
Product code:	
Recommended use:	De-icer
Chemical group:	Mixture
Supplier identifier:	MULTI ROUTES INC. 11415, 6 <sup>e</sup> Avenue Rivière-des-Prairies, Montréal, QC H1E 1R8 514-648-2632
Emergency phone:	Canutec (613) 996-6666 24 hrs

SECTION 2 - HAZARD IDENTIFICATION		
Classification	Eye irritation 2A	
Signal word	CAUTION	
Hazard statement	H319	Causes serious eye irritation.
Precautionary statement - Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement - Response	P305+P351+P338 P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Precautionary statement - Storage		
Precautionary statement - Elimination	P501	Dispose contents/containers according to municipal, provincial and federal regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	CAS	% (weight)
Sodium chloride	7647-14-5	95 – 100 *
Calcium chloride	10043-52-4	1 – 5 *
Rheology agent	N/A	0.1 – 1.0 *
Colourant	N/A	0.1 – 1.0 *

\*TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES	
<b>Inhalation:</b>	
	IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.
<b>Skin contact:</b>	
	IF ON SKIN: Take off all contaminated clothing. Rinse skin with water for 20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse.
<b>Eye contact:</b>	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion:</b>	
	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.
<b>Note to physician:</b>	
	Wash with soap and water, rinse thoroughly. Ingestion of larger quantities may cause electrolytes imbalance.

SECTION 5 - FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	According to the conditions of the fire.
Unsuitable extinguishing media:	None known.

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<b>Hazardous combustion products:</b>	Hydrogen chloride gas, sodium oxide, calcium oxide, acrid smoke.
<b>Protective equipment:</b>	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
<b>Precautions:</b>	Retain water run-off. Prevent infiltration in sewers or waterways.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Protective equipment:</b>	
	Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.
<b>Containment and clean up:</b>	
	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
<b>Environmental precautions:</b>	
	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

**SECTION 7 - HANDLING AND STORAGE**

<b>Precautions for safe handling:</b>	
	Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.
<b>Conditions for safe storage:</b>	
	Store in a well-ventilated and dry place. Store away from incompatible materials. Keep containers closed.
<b>Incompatible materials:</b>	
	Brome trifluoride, lithium.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure limits:</b>			
<b>Ingredients</b>	<b>CAS</b>	<b>SOURCE</b>	<b>Values</b>
Sodium chloride	7647-14-5	CNESST	TWA 3 mg/m <sup>3</sup>
Calcium chloride	10043-52-4		No established limits.
Rheology agent	N/A		No established limits.
Colourant	N/A		No established limits.
<b>Engineering controls:</b>			
	Local ventilation system is recommended to maintain concentrations of contaminants below exposure limits.		
<b>Protection of airways:</b>			
	Respiratory protection is required if concentration are above exposure limits. Use a NIOSH approved autonomous respiratory apparatus if exposure limits are unknown.		
<b>Protective equipment and clothing:</b>			
	Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.		
<b>General hygiene recommendations:</b>			
	Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.		

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Solid crystals, blue
<b>Odour :</b>	Odourless
<b>Odour threshold:</b>	Not available
<b>pH as is :</b>	5 – 8
<b>Melting point:</b>	800 °C
<b>Initial boiling point:</b>	1461 °C
<b>Flash point:</b>	Not applicable
<b>Evaporation rate (butyl acetate = 1):</b>	Not available

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<b>Flammability:</b>	Not flammable
<b>LIL:</b>	Not applicable
<b>UIL:</b>	Not applicable
<b>Vapour pressure:</b>	Not available
<b>Vapour density (air=1):</b>	Not available
<b>Relative density:</b>	2.17
<b>Solubility:</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Volatiles:</b>	Not available
<b>Viscosity:</b>	Not applicable

## SECTION 10 - STABILITY AND REACTIVITY

<b>Stability and reactivity :</b>	Stable under recommended conditions and expected usage.
<b>Polymerisation:</b>	No.
<b>Conditions to avoid :</b>	Contact with incompatible materials.
<b>Incompatible materials :</b>	Brome trifluoride, lithium.
<b>Hazardous decomposition products:</b>	Hydrogen chloride gas, sodium oxide, calcium oxide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Toxicological data:</b>				
<b>Hazardous ingredient</b>	<b>CAS</b>	<b>%</b>	<b>DL<sub>50</sub> (route, species)</b>	<b>CL<sub>50</sub> (species)</b>
Sodium chloride	7647-14-5	95 - 100	3000 mg/kg (oral, rat) >10000 mg/kg (dermal, rat)	No data.
Calcium chloride	10043-52-4	1 - 5	1000 mg/kg (oral, rat) 2630 mg/kg (dermal, rat)	No data.
Rheology agent	N/A	0.1 - 1.0	No data.	No data.
Colourant	N/A	0.1 - 1.0	No data.	No data.
<b>Short term exposure (acute):</b>				
<b>Inhalation:</b>	No adverse effects have been reported.			
<b>Skin:</b>	May cause slight irritation, redness, itching and swelling or dryness on excessive exposure.			
<b>Eyes:</b>	Causes serious eye irritation. Pain, redness, tearing.			
<b>Ingestion:</b>	Nausea, vomiting, increased thirst.			
<b>Long term exposure (chronic):</b>				
<b>Inhalation:</b>	No data.			
<b>Skin:</b>	No data.			
<b>Eyes:</b>	No data.			
<b>Ingestion:</b>	No data.			
<b>Carcinogenicity :</b>	Not classified.			
<b>Teratogenicity:</b>	No data.			
<b>Mutagenicity:</b>	No data.			
<b>Target organ:</b>	No data.			
<b>Conditions aggravated by exposure :</b>	Any skin condition that irritates the skin: abrasion, cuts, psoriasis, fungal infection, etc. Any eye condition that endangers the production of tears, conjunctivitis or corneal homeostasis.			

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Hazardous ingredient</b>	<b>CAS</b>	<b>%</b>	<b>Value</b>	<b>Species</b>
Sodium chloride	7647-14-5	95 - 100	LC50 7650 mg/L, 96h EC50 1000 mg/L, 48h	Pimephales promelas Daphnia magna
Calcium chloride	10043-52-4	1 - 5	LC50 8350 - 10650 mg/L LC50 759 - 3005 mg/L	Lepomis macrochirus Daphnia magna
Rheology agent	N/A	0.1 - 1.0	No data.	No data.

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Colourant	N/A	0.1 – 1.0	No data.	No data.
<b>Persistence and degradability:</b>		Not determined.		
<b>Bioaccumulation potential:</b>		Not determined.		
<b>Mobility in soil:</b>		Not determined.		
<b>Other adverse effects :</b>		Not determined.		

**SECTION 13 - DISPOSAL CONSIDERATIONS**

<b>Safe handling for disposal:</b>	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
<b>Methods of disposal:</b>	Dispose contents/containers according to all municipal, provincial and federal regulations.

**SECTION 14 - TRANSPORT INFORMATION**

UN Number	Proper shipping name	Class	Packing group	Placard
Not regulated for transport.				

**SECTION 15 - REGULATORY INFORMATION**

<b>Canadian Environmental Protection Act (CEPA):</b>	Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
<b>Others:</b>	Components of this product are listed on the TSCA or are exempt.

**SECTION 16 - OTHER INFORMATION**

<b>Prepared by:</b>	Laboratoire Campeau Inc. 61 rue Des Menuisiers, Local 106 Sainte-Anne-Des-Plaines, Qc, J0N1H0
<b>Telephone :</b>	(514) 642-6669
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<b>Version:</b>	1.0
<b>Abbreviations:</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.