



**MATERIAL SAFETY DATA SHEET
FOR POLAR PLUS ICE MELTER**

April 2007

A. GENERAL INFORMATION

Trade Name (Common Name or Synonym) -	Polar Plus
Product Uses	Ice melter, Deicer, Anti-icer
Manufacturer	Keg River Chemical Corp. 10350-21 Street Edmonton, Alberta, Canada T6P 1W4
Telephone	(780) 417-2463

B. COMPOSITION INFORMATION ON INGREDIENTS

	<u>CAS. Reg. No.</u>	<u>Approx %</u>
Sodium Chloride	007647-14-5	90-95%
Calcium Chloride	010043-52-4	5-10%

C. HAZARDS IDENTIFICATION

EYE:	May cause irritation.
SKIN:	Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded (scratched or cut).
INGESTION:	Single dose oral toxicity is believed to be low. Small Amounts swallowed incidental to normal handling procedures are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.
INHALATION:	Dusts may cause irritation to upper respiratory tract.
SYSTEMATIC (OTHER TARGET ORGAN) EFFECTS:	No relevant information found.

D. FIRST AID

EYES:	Irrigate with flowing water immediately and continuously for 15 minutes. Contact medical personnel (if required).
SKIN:	Wash off in flowing water or shower.

INGESTION:	Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.
INHALATION:	Remove to fresh air if effects occur. Consult a physician.

E. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES :	Non-flammable by WHMIS criteria.
FLAMMABILITY LIMITS:	LFL: Not Applicable UFL: Not Applicable.
HAZARDOUS COMPOSITION PRODUCTS:	Not Applicable.
EXTINGUISHING MEDIA:	Dry chemical, chemical foam, carbon dioxide.
FIRE FIGHTING INSTRUCTIONS:	Keep people away. Isolate fire area and deny any unnecessary entry.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	Wear positive pressure self contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

F. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE:	Isolate area. Avoid contact with eye and skin. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment.
PROTECT THE ENVIRONMENT:	For small spills losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. For large spills: avoid contamination of drinking water, natural water, ground water, or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.
CLEANUP:	Contain spill if possible. Use broom or by vacuum to collect material for proper disposal. Rinse area with water. Prevent large spills from entering sewers or waterways

G. HANDLING AND STORAGE

HANDLING:	Selection of specific items such as gloves, boots, apron, or other, will depend on each operation. If hands are cut or scratched, use gloves impervious to this material for brief exposures. Use gloves with insulation for thermal protection, when needed.
RESPIRATORY PROTECTION:	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.
EXPOSURE GUIDELINES:	Sodium Chloride 10 mg/m ³ , Calcium Chloride 10 mg/m ³

H. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Green solid
BOILING POINT:	Not applicable
CRYSTALLIZATION TEMPERATURE	Not applicable
SOLUBILITY IN WATER:	Complete
BULK DENSITY:	1200-1500 kg/m ³
PH (10% solution)	7

I. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable. Hygroscopic.
CONDITIONS TO AVOID:	Temperature >350C
MATERIALS TO AVOID:	React with sulfuric acid and zinc.
HAZARDOUS DECOMPOSITION PRODUCTS:	Does not decompose.
HAZARDOUS POLYMERIZATION:	Will not occur.

J. TOXICOLOGICAL INFORMATION

ACUTE:	Skin: The LD50 for skin absorption in rabbits is >5000 mg/kg for NaCl and CaCl ₂ .
INGESTION (100%):	Sodium Chloride LD ₅₀ : 3000 mg/kg, rat Calcium Chloride Oral: LD50 = 900-2100 mg/kg, rat
MUTAGENICITY:	In vitro mutagenicity studies were negative.

K. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:	Based largely or completely on data for major component(s), material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).
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L. DISPOSAL CONSIDERATIONS

DISPOSAL:	Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Keg River Chemical Corp. encourages that disposal methods be utilized in accordance with the above noted. For unused or contaminated product, the preferred options include sending the material to a licensed, permitted, reclaimer or waste treatment system.
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M. TRANSPORTATION REQUIREMENTS**US and Canadian Shipments:**

Proper Shipping Name: Ice Melt
Hazard Classification: Not regulated when shipped domestically by land.

TRANSPORTATION EMERGENCIES: Call collect **CANUTEC 613-996-6666 (24 hrs.)**

N. REGULATORY INFORMATION

WHMIS: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is: D2B – eye and skin irritant.

MSDS Prepared by: Keg River Chemical Corp. (780) 417-2463
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Date Prepared: April 2007

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