

POLLARD HIGHWAY PRODUCTS

CALCIUM CHLORIDE SOLUTION DustMaster 20

Material Safety Data Sheet

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME): CALCIUM CHLORIDE SOLUTION		CAS NUMBER: 10043-52-4 (anhydrous), 7647-14-5 (anhydrous), 7791-18-6	
CHEMICAL NAME AND/OR SYNONYM: LIQUID CALCIUM CHLORIDE, SODIUM CHLORIDE, MAGNESIUM CHLORIDE BRINE		MOLECULE WEIGHT: 110.98 as anhydrous CaCl ₂ , 95.22 as anhydrous MgCl ₂ , 58.453 NaCl	
FORMULA: CaCl ₂ 15-18%, MgCl ₂ 2-4%, NaCl 8-10%			
MANUFACTURER/ADDRESS: ENBRIDGE ENERGY DISTRIBUTION INC. 2351 GREENFIELD ROAD COURTRIGHT, ONTARIO N0N 1G0			
CONTACT: MARKETING MANAGER	PHONE NUMBER: 1-800-265-5619	LAST ISSUE DATE: January, 2008	CURRENT ISSUE DATE: January, 2012

B. FIRST AID MEASURES

EYES: Flush promptly with plenty of water, continuing for at least 15 minutes. Get medical attention.	EMERGENCY PHONE NUMBER: (800) 265-5619
SKIN: Wash with plenty of water.	
INHALATION: Remove to fresh air.	
INGESTION: If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat. Get medical attention for irritation, ingestion, or discomfort from inhalation.	

C. HAZARDS INFORMATION

INHALATION: Vapors are unlikely due to physical properties. Mists may cause irritation to the upper respiratory tract.
INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.
SKIN: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes

C. HAZARDS (Cont.)

EYES:
In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

PERMISSIBLE CONCENTRATION: AIR
NA

BIOLOGICAL:
None

UNUSUAL CHRONIC TOXICITY:
None

FLASH POINT:
Not flammable

AUTO IGNITION TEMPERATURE
NA

FLAMMABLE LIMITS IN AIR (% BY VOL.)

OPEN CUP

CLOSED CUP

LOWER – NA

UPPER - NA

UNUSUAL FIRE AND EXPLOSION HAZARDS
NA

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED:
Use extinguishing media appropriate for surrounding fire.

FIRE EXTINGUISHING AGENTS TO AVOID:
None identified

SPECIAL FIREFIGHTING PRECAUTIONS:
None identified

VENTILATION:
None identified

NORMAL HANDLING:
Avoid contact with eyes, skin or clothing. Use good personal hygiene and housekeeping.

STORAGE:
Keep container tightly closed. Suitable for any general chemical storage area.

SPILL OR LEAK:
Wear suitable protective clothing. Carefully sweep up and remove.

SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS:
None

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:
None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

EYES AND FACE:
Safety goggles

HANDS, ARMS, AND BODY:
Proper gloves are recommended

F. PHYSICAL DATA

MATERIAL IS AT NORMAL CONDITIONS: LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> GAS <input type="checkbox"/> <input type="checkbox"/> Slurry		APPEARANCE AND COLOR: Clear to slightly turbid liquid	
BOILING POINT: 116 °C	SPECIFIC GRAVITY: (H ₂ O = 1) 1.24 @ 27 °C	VAPOR DENSITY: (AIR =1) Not applicable	
MELTING POINT: 7 °C			
SOLUBILITY IN WATER: (% BY WEIGHT Very Soluble as CaCl ₂ , 45%, NaCl, 24%, MgCl ₂ , 35%	pH slightly acidic	VAPOR PRESSURE: (mm Hg @ 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/> mm Hg @ 20 C 1.1 kPa 35%	
EVAPORATION RATE: (Butyl acetate =1) <input type="checkbox"/> (Ether = 1.0) <input type="checkbox"/> Not applicable	% VOLATILES BY VOLUME: (AT 20°C) Not applicable		

G. REACTIVITY DATA

STABILITY: UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>	CONDITIONS TO AVOID: Not applicable
INCOMPATIBILITY (MATERIALS TO AVOID): Reacts violently with bromine trifluoride (BrF ₃), or a mixture of boron trioxide and calcium oxide (B ₂ O ₃ + CaO). Water-reactive materials, such as sodium; causes an exothermic reaction. Methyl vinyl ether; starts runaway polymerization. Zinc as in galvanized iron; yields hydrogen gas, which may explode under these conditions.	
HAZARDOUS DECOMPOSITION PRODUCTS: Fumes of Chlorides (Cl-) are given off at temperatures above 1600 °C	
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR <input checked="" type="checkbox"/> MAY OCCUR <input type="checkbox"/>	OTHER PRECAUTIONS: Will undergo violent polymerization with methyl vinyl ether. The anhydrous, monohydrate, dihydrate and tetrahydrate forms of calcium chloride, when dissolved in water, produce considerable amounts of heat.

H. HAZARDOUS INGREDIENTS (MIXTURES ONLY)

HAZARDOUS INGREDIENTS 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.
This product is not hazardous as defined by Canada's Transportation of Dangerous Goods Act.

