

Material Safety Data Sheet

MASTERMELT

A. GENERAL INFORMATION



TRADE NAME (COMMON NAME): MASTERMELT WINTER SOLUTIONS		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 2-3%, NaCl 8-10%			
MANUFACTURER/ADDRESS: POLLARD HIGHWAY PRODUCTS BOX 280, 21- 3 rd CONCESSION RD HARROW, ONTARIO N0R 1G0			
CONTACT: MARKETING MANAGER	PHONE NUMBER: 1-800-265-5619	LAST ISSUE DATE: JANUARY 1,2017	CURRENT ISSUE DATE: November 15, 2017

B. FIRST AID MEASURES

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

C. HAZARDS INFORMATION

<p>INHALATION: Vapors are unlikely due to physical properties. Mists may cause irritation to the upper respiratory tract.</p>
<p>INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.</p>

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.)

LOWER – NA

UPPER - NA

OPEN CUP

CLOSED CUP

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. Depending on volumes, locations and product concentrations spill area can be flushed with water to remove surplus product. Area should be sanded or covered with other dry earth or vermiculite to maintain roadway friction or absorb remaining liquids. Residual material should be collected and disposed in accordance with local regulations.

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

OTHER CLOTHING AND EQUIPMENT:

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	pH slightly acidic	VAPOR PRESSURE: (mm Hg @ 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/> mm Hg @ 20 C 1.1 kPa 35%	
SOLUBILITY IN WATER: (% BY WEIGHT Very Soluble as CaCl ₂ , 45%, NaCl, 24%, MgCl ₂ , 35%	% VOLATILES BY VOLUME: (AT 20°C) Not applicable		
EVAPORATION RATE: (Butyl acetate = 1) <input type="checkbox"/> (Ether = 1.0) <input type="checkbox"/> 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)

MATERIAL OR COMPONENT/C.A.S. #	WT%	HAZARD DATA
--------------------------------	-----	-------------

Not applicable		
----------------	--	--

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY: Harmful to aquatic life at concentrations greater than 500 ppm. CaCl ₂ , NaCl and MgCl ₂ Does not bioaccumulate. TLm 96>100mg/1 Aquatic Toxicity: None identified	OCTANOL/WATER PARTITION COEFFICIENT NA
---	--

EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311) YES NO IF SO, REPORTABLE QUANTITY:

WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS):
 Treatment or disposal of waste generated by use of this product should be reviewed in terms of applicable federal, state and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment or disposal.

RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: Not a "hazardous waste".	HAZARDOUS WASTE NUMBER: (IF APPLICABLE) --
---	--

J. REFERENCES

PERMISSIBLE CONCENTRATIONS REFERENCES:
None

REGULATORY STANDARDS: None	DOT CLASSIFICATION: Not regulated
--------------------------------------	---

GENERAL:

K. ADDITIONAL INFORMATION

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION. CONSIDERATION AND INVESTIGATION.

POLLARD HIGHWAY PRODUCTS PROVIDES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT. INDIVIDUALS RECEIVING THE INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGEMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE.