

ICE MELTER LABEL CLAIMS – “Concrete Safe”



Ice melt is **NOT** an EPA regulated product, so *anything goes* in printed label claims

We Use the *Concrete & Cement* Industry Experts Data



The two most recognized organizations pertaining to the working technical knowledge of concrete are **The American Concrete Institute (ACI)** and the **Portland Cement Association (PCA)**. Both of these organizations *agree* that sodium and calcium chloride are safe for deicing concrete when used as directed.

The ACI Guide to Durable Concrete rates the effects of commonly used deicers on concrete are shown below. This is from the [ACI 201.2R-01 Guide to Durable Concrete](#), reported by committee 201, Copyright 2001.

Table 2.1 Effect of commonly used deicers on concrete

Deicer	Effect on Concrete
Sodium Chloride	Negligible
Calcium Chloride	Negligible
Magnesium Chloride	Slow
Ammonium Sulfate	Moderate

Table 2.1 shows Sodium and Calcium Chloride have a negligible chemical effect on concrete. Magnesium Chloride has a Slow Effect and Ammonium Sulfate has Moderate Effect.

Magnesium chloride often said to be “safe on concrete”. However, there is plenty of research evidence showing magnesium chloride (MgCl₂) is harmful to concrete as referenced & linked below:

[American Concrete Institute Tech Paper 105-M70](#)
Effects of Deicers on Concrete Deterioration
ACI Materials Journal, V. 105, No. 6, November-December 2008

[The Role of Magnesium in Concrete Deterioration](#)
Iowa DOT HR-355, Final Report
The Iowa Highway Research Board
Dept. of Geological and Atmospheric Sciences, Iowa State University

[Effects of Various Deicing Chemicals on Pavement Concrete Deterioration](#)
Mid-Continent Transportation Symposium
Hyomin Lee, Robert D. Cody, Anita M. Cody, and Paul G. Spry
Department of Geological and Atmospheric Sciences, Iowa State University

[Magnesium Chloride as a Road Deicer: A Critical Review](#)
Peter G. Snow, FACI
Burns Concrete, Inc.
Idaho Falls, Idaho

We have concluded from the above expert evidence findings, to **not** carry deicers with magnesium chloride. We also recommend deicers be applied as recommended by manufacturer’s use directions.