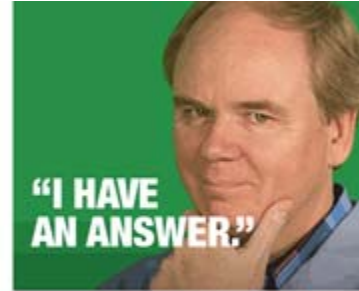


THANK YOU FOR SUBMITTING YOUR QUESTION...



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Your question:

We are looking for studies on Mag Chloride vs. Calcium or sodium chloride brines. Any information, including environmental studies would be appreciated.

My answer:

There are many studies that have been published on various aspects of the common chloride deicers – probably more than you want to read through. Perhaps it would be most useful if I point you in the direction of a few review articles which summarize much of the previous published work. E.S. Sumsion and W.S. Guthrie. "Physical and Chemical Effects of Deicers on Concrete Pavement: Literature Review." Report No. UT-13.09, Utah Department of Transportation Research Division, July, 2013. Levelton Consultants, Ltd. NCHRP Report 577: Guidelines for the Selection of Snow and Ice Control Materials to Mitigate Environmental Impact. Transportation Research Board, Washington, DC., 2007. M. Akin, J. Huang, X. Shi, D. Veneziano, and D. Williams. Snow Removal at Extreme Temperatures Final Report. Western Transportation Institute for Clear Roads Program, Project 99085/CR11-04, March, 2013. X. Shi, M. Akin, J. Huang, Y. Zhang, S. Yungwirth, Y. Fang, A. Muthumani, and P. Yi. Evaluation and Analysis of Liquid Deicers for Winter Highway Maintenance Operations Final Report. Western Transportation Institute, December 28, 2013. K. O'Keefe and X. Shi. Synthesis of Information on Anti-icing and Pre-wetting for Winter Highway Maintenance Practices in North America Final Report. Western Transportation Institute for the Pacific Northwest Snowfighters Association, August 19, 2005. L. Fay and X. Shi. "Environmental Impacts of Chemicals for Snow and Ice Control: State of Knowledge." Water Air Soil Pollut (2012) 223:2751–2770.

Providing customers with deicing solutions that save lives, enhance commerce and reduce environmental impact.