

Product Evaluation

RE: Review of Road Guard Plus 8 Anti-Icing and Deicing Fluid

PRODUCT

Road Guard Plus 8 Anti-Icing and Deicing Fluid is manufactured and distributed by Tiger Calcium Services Inc. located in Nisku, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Road Guard Plus 8 Anti-Icing and Deicing Fluid is a corrosion inhibited liquid form of calcium chloride and magnesium chloride brine developed especially for anti-icing and pre-wetting at extremely low temperatures (to -45°C). The corrosion rate of the Road Guard Plus 8 Anti-Icing and Deicing Fluid is 85% lower than sodium chloride. Product web site: <http://www.tigercalcium.com/pdfs/roadGuardPlus8.pdf>

DESCRIPTION

Road Guard Plus 8 Anti-Icing and Deicing Fluid active ingredients are 26.5% calcium chloride, 3.1% magnesium chloride, 2.2% alkaline chlorides including sodium chloride and potassium chloride, 8% highly effective corrosion inhibitors. Road Guard Plus 8 has a freezing point of -45°C .

POTENTIAL USAGE

Road Guard Plus 8 as an anti-icer/deicer is typically applied at rates of 35 – 70 liters per lane kilometer. As a pre-wetting agent, Road Guard Plus 8 is typically used at rates of 30 – 50 liters per tonne of salt or sand. The end user recommended to adjust application rates based on weather conditions, level of service goals and experience.

STANDARDS

Pacific Northwest Snow Fighters Association approval

ALBERTA TRANSPORTATION COMMENTS

EXPIERENCE

Alberta Transportation has used anti-icing liquids for stockpile treatment.

APPLICATION STANDARDS

The Alberta Transportation Specifications for ice control are:

- Specification 52.5, Sodium Chloride Treated Sand
- Specification 52.6, Calcium Chloride Treated Sand
- Specification 52.8, Supply of Sodium Chloride (Salt)

RECOMMENDATIONS

Road Guard Plus 8 Anti-Icing and Deicing Fluid be listed under the Alberta Transportation's Products List as a Proven Product, De-Icing Chemicals – Proprietary.

“Consideration to the proximity of Bridge Structures when applying this product”

TRIAL PROJECTS

North west Anthony Henday
Hwy's 216, 16 and 14 as a pre-wet sand and salt mixtures.

Joe Filice

cc New Product Evaluation Committee – Roger Skirrow
James Poole
Dave Besuyen/Jim Gavin