

Product Evaluation

RE: Review of Clear Guard Advanced

PRODUCT INFORMATION

Product Name: Clear Guard Advanced
Website: www.tigercalcium.com

Manufacturer: Tiger Calcium, Nisku, AB
Supplier: Tiger Calcium, Nisku, AB

VENDOR CLAIMS AND INFORMATION

CLAIMS

Clear Guard Advanced is a corrosion inhibited liquid calcium chloride solution developed especially for anti-icing and de-icing pre-wetting applications in moderate to extreme winter conditions. Clear Guard Advanced aggressively melts snow and ice down to -32°C, perfect for harsh North American winters. Clear Guard Advanced is a Clear Roads approved product.

DESCRIPTION

Following are the typical compositions and properties of Clear Guard Advanced:

Active Chlorides (Ca+Mg as CaCl₂) ≥29%, Calcium Chloride ≥25%, Magnesium Chloride ≥3%
Sodium Chloride ≤2%, Relative Density (SG) at 15.6degC 1.31 to 1.33, Corrosion Rate ≤30%,
Effective Ice Melting Temperature -32degC

POTENTIAL USAGE

Primary use of Clear Guard Advanced is for direct liquid anti icing/deicing applications. It can also be used as a pre-wetting agent as well as freeze proofing sand and salt piles.

STANDARDS

Clear Roads Association approval

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Transportation and Economic Corridors has used anti-icing liquids for stockpile treatment.

APPLICABLE STANDARDS

Transportation and Economic Corridors 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

Clear Guard Advanced be listed as a Potential Product under Transportation and Economic Corridors Products List, De-icing Chemicals – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat: The application rate and the mixing rate depends on temperature and for the type of use, such as Anti-icing, Pre-wetting, or Stockpile treatment. Applicator will need to follow manufacturer's recommended ratio of Fusion and brine mixed solution. This product should not be applied within 300m from water bodies.

TRIAL PROJECTS

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