

One Formula + Two Great Products

+ Year-Round Use =

BIG WIN FOR DPWs



SAFE MELT™



Our unique blend of ammonium lignosulfonate and calcium chloride produces exceptional results, both as an ice melting (**SAFE MELT™**) and dust control (**SAFE BIND®**) agent. This is because the chemical composition of the forestry byproduct - ammonium lignosulfonate - contains six low molecular weight carbohydrates which have been proven by several U.S. patents to depress the freeze point of water. Chief among them is U.S. Patent No. 6,582,622. This means that the agricultural component of the **SAFE MELT™** blend is working in conjunction with the calcium chloride to further reduce the freeze point of water. The implications for winter operations are obvious. And like other agricultural byproducts, it is a powerful corrosion inhibitor.

The blending of ammonium lignosulfonate with calcium chloride produces another synergistic effect in summer operations. Due to its natural and unique adhesive property when moist, the lignin-based portion of the **SAFE BIND®** blend packs fine particles more closely together for a stronger road surface. This greatly reduces water uptake by the roadbed. Due to its hygroscopicity the calcium chloride portion of the blend draws moisture from the surrounding atmosphere and keeps the road surface moist. A road surface so treated is very forgiving even after extended periods of extremely dry weather. One good rain will bring a dry road back to life.

A more recent combined effect has been discovered in connection with the use of **SAFE BIND®** and Recycled Asphalt Shingles (**RAS**). Several New England towns have had great success combining the two materials. Ammonium lignosulfonate



has proven to be a natural binder for RAS. Combining the two reduces even further the need for blading and grading and has proven to be a very successful fix in areas prone to washouts.

The bottom line is that municipalities like the idea of using one product, one tank, one pump year-round. It simplifies and streamlines the ordering process, eliminates the problems of inadvertently mixing incompatible materials and saves space and money by doing away with the need for extra storage and pumps. Towns also like the fact that the lignin/calcium blend outperforms straight chloride brines in both winter and summer applications.

Let us put our high performance, environmentally friendly and cost saving products to work for your department.

Environmentally Friendly Winter & Summer Road Maintenance Products

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