

High Performance. Versatile. Safe.

Effective dust control & road stabilization agent!

RoadSaver



Product Overview

RoadSaver™ is a high purity grade of magnesium chloride ($MgCl_2$) which is a hygroscopic, deliquescent compound that attracts moisture from the air and resists evaporation. *RoadSaver™* binds fine dust and aggregate particles to keep surfaces stable and dust free. *RoadSaver™* is a high performance versatile product that works well under a wide range of climatic and soil conditions. As part of a comprehensive road maintenance strategy, *RoadSaver™* improves safety and service levels, reduces equipment and maintenance costs, reduces the chloride load on the environment and reduces particulate matter emissions and clean-up costs, while saving budgetary money at the same time.

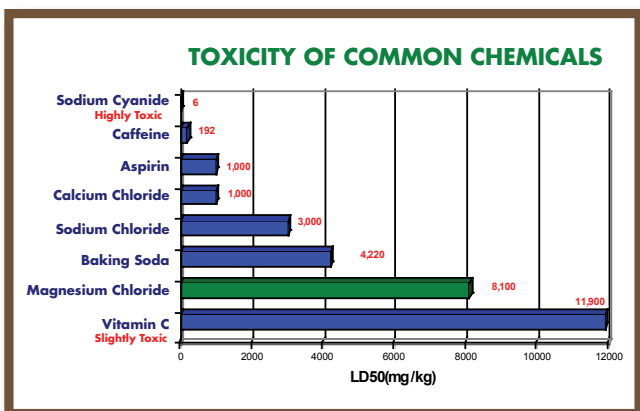
Product Features

As a high performance dust control agent, *RoadSaver™* virtually eliminates dust and is an excellent soil base stabilizer that:

- Improves visibility and road safety by reducing the chance of injury from loose gravel and flying stones
- Provides cleaner air, cleaner vehicles and cleaner homes
- Improves agricultural crop productivity
- Promotes better health and reduces related risks such as allergic reactions, pneumonia and asthmatic attacks
- A cumulative effect will result in each new application building on previous residuals reducing application rates while improving performance and preventing costly soil erosion
- Saves money by reducing the need for blading, watering and gravel replacement
- Provides a smooth, firm driving surface that increases vehicle productivity, decreases fuel consumption and costly repairs
- OPSS 506/2503 approved and BNQ 2410-300/2009 certified

Health, Toxicity and the Environment

RoadSaver™ is safe for use around plants and animals as well as being less harmful to road surfaces and metals at recommended application rates. According to independent studies conducted by the US Department of Agriculture, *RoadSaver™* is the least harmful of common dust suppressants to vegetation and groundwater. Non-irritating and safer to handle, *RoadSaver™* will not cause burning or stinging associated with alternative products. *RoadSaver™* is free of toxic metals and substances and is used as an ice control agent and fertilizer for crops such as turf and small grains.



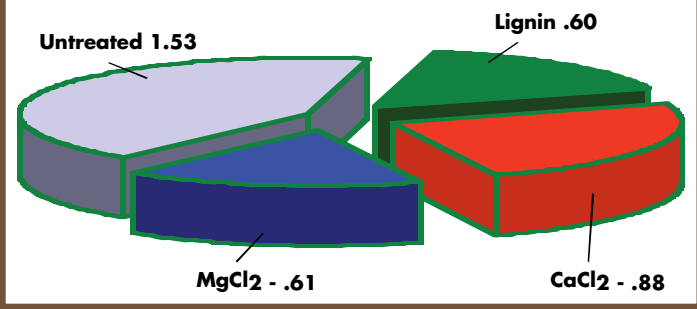
READY WHEN NATURE STRIKES. GUARANTEED.



Attached Water Molecules at Different Temperatures

Temperature (C)	Temperature (F)	Magnesium Chloride	Calcium Chloride
-4	25	8	6
0	32	6	6
30	86	6	4
44	111	6	2

Aggregate Loss (Tons / KM / Year / Car)



RoadSaver™ is available in 205L drums, 1000L totes and bulk tank trucks (strategic terminals).



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Product Performance

Magnesium Chloride (MgCl₂), Calcium Chloride (CaCl₂) and Lignosulfonates are the dominant dust control and road stabilization agents used in North America. Environmental factors such as temperature, humidity level, precipitation, and especially soil/aggregate type/gradation, play key roles in determining the success or failure of one agent versus another.

For example: The Transportation Association of Canada (TAC), in its Guidelines for Cost-Effective Use and Application of Dust Palliatives suggests that "calcium chloride loses its hygroscopicity (ability to absorb moisture from the air) as relative humidity decreases. Calcium chloride should be used with caution if long dry spells are anticipated or low humidity exists." They found that "magnesium chloride, while also hygroscopic, remains so at much higher temperatures and lower relative humidity than calcium chloride and therefore may be more suitable to dry climates." This can be attributed to that fact that magnesium chloride has the distinct advantage of having more water molecules attached to it at all temperatures. The guidelines also state that magnesium chloride is "less corrosive than calcium chloride."

According to a Colorado State University Study on the "Relative Effectiveness of Road Dust Suppressants", magnesium chloride outperformed calcium chloride and performed very well in terms of aggregate retention. There was an estimated total aggregate loss of 1.0 tonne / mile / year / vehicle from the RoadSaver™ treated test section, 1.5 tonnes / mile / year / vehicle from the calcium chloride treated test section and 2.6 tonnes / mile / year / vehicle from the untreated test section. This translates into a 59% reduction in total aggregate loss when unpaved roads were treated with RoadSaver™.

The Magnesium/Calcium Chloride Equivalency Chart Based on Molecular Weight

Magnesium Chloride	Calcium Chloride
33.0%	38.5%
32.0%	37.3%
31.0%	36.1%
30.0%	35.0%

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