

# ProGuard™

## MAG

ProGuard™ MAG is a high performance dust control and soil stabilization agent designed to extend the life of your gravel roads and surfaces. Composed of magnesium chloride ( $MgCl_2$ ), ProGuard™ MAG works by binding fine dust and aggregate particles to keep surfaces stable and dust free.

## Features and Benefits:

The hygroscopic properties of magnesium chloride keep the ground moist providing maximum control of dust and dirt. ProGuard™ MAG can be used on gravel roads, parking lots and driveways as well as in mining operations and construction areas.

A high performance dust control agent, ProGuard™ MAG is designed to:

- Create safer road conditions by increasing driver visibility.
- Promote healthier air quality for people, pets and plants by protecting against the health threats of fugitive dust which can aggravate respiratory problems.
- Reduce costly soil erosion and loss of aggregate resulting in longer lasting, safer roads and surfaces.
- Prevent fugitive dust from washing off into streams, creeks and lakes improving water quality.

## General Properties and Guidelines:

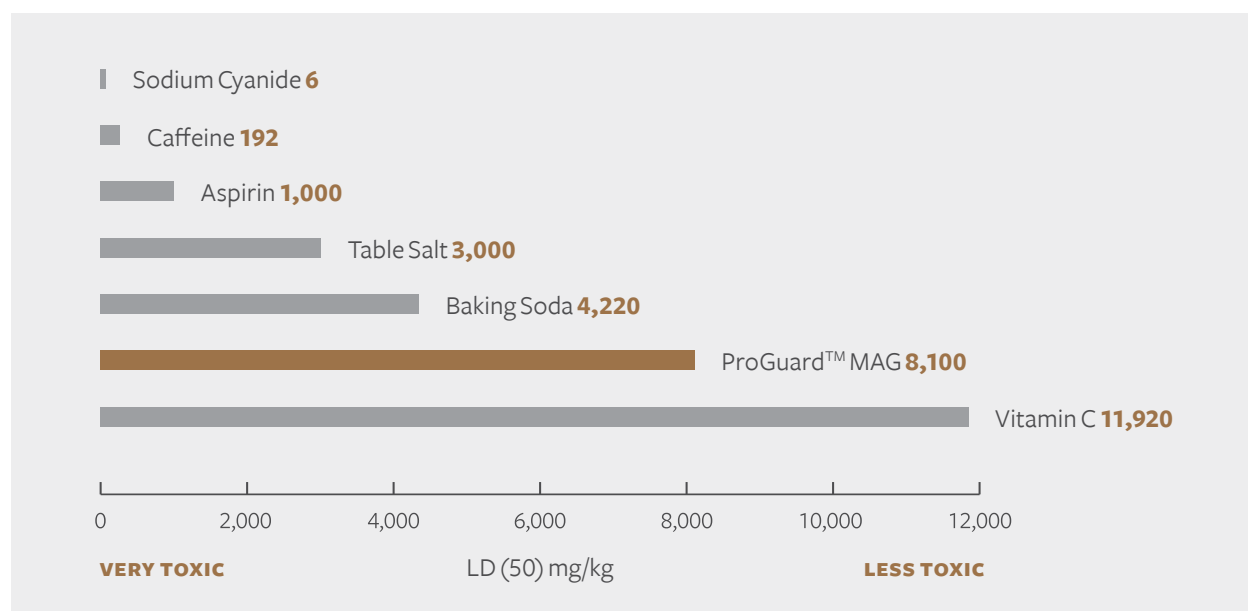
<b>Appearance</b>	Clear amber
<b>% MgCl<sub>2</sub> (w/w)</b>	30%
<b>Specific Gravity (15°C/60°F)</b>	1.290 g/mL
<b>Weight (15°C/60°F)</b>	10.76 lbs/gal

Safe to handle, ProGuard™ MAG will not cause burning or stinging and is free of toxic metals and substances. Application rates vary based on soil type and traffic volume; typical application rates range from 1.0 to 2.3 liters per square meter / 0.2 to 0.5 gallons per square yard. Follow up applications rates are applied at half the initial dosage.

<b>Magnesium Chloride</b>	<b>30%</b>
EQUIVALENT TO	
<b>Calcium Chloride</b>	<b>35%</b>

Magnesium chloride and calcium chloride solutions cannot be compared at equivalent percentages as they have different molecular weights. Molecular weight conversion has been universally adopted in most US States and Canadian provinces.

## Toxicity of Common Chemicals



Magnesium chloride is safe for the environment. This naturally occurring product is approved for organic use in agriculture.

## Colorado State University Study

A study conducted by Colorado State University on the “Relative Effectiveness of Road Dust Suppressants” concluded that a 59% reduction in total aggregate loss was achieved when unpaved roads were treated with magnesium chloride.