

## COMMONLY ASKED QUESTIONS



### **WHAT IS ROAD SAVER®?**

Road Saver®, as applied by EnviroTech Services, Inc., is a liquid magnesium chloride product designed for deep soil penetration and maximum control of dust. It contains the highest recommended concentration of magnesium chloride and a low secondary chemical ion content.

### **WHAT DOES ROAD SAVER® DO?**

Road Saver® is an excellent solution for dust control, soil stabilization and/or wind erosion problems. When you apply Road Saver® to roads and bare soil areas, it immediately goes to work for you by providing:

- 1) Cleaner air, which leads to better health, better visibility and much cleaner vehicles, property, vegetation and living sites.
- 2) An inexpensive, smooth, firm, driving surface, which increases vehicle productivity, decreases fuel consumption and saves time.
- 3) Greater safety by increasing driver visibility and decreasing risks caused by loose gravel, soft spots, road roughness and flying rocks.
- 4) Stable soil by preventing destructive wind erosion.
- 5) Money-saving opportunities in areas ranging from vehicle and road maintenance expenditures (such as blading, watering and gravel replacement) to improving the engineering properties of soil. Road Saver has proven that it can eliminate or greatly reduce the cost of blading unpaved roads.

### **WHERE SHOULD ROAD SAVER® BE USED?**

Road Saver® works to control dust and stabilizes aggregate and dirt surfaces on virtually any type of road. For example, it can be used on mine haul, construction site haul and forest/timber haul roads, as well as military, agriculture, industrial and federal project roads. Private and rural roads, parking lot surfaces, industrial and construction staging areas and airfield helicopter pads are also appropriate surfaces for Road Saver applications.

Stabilization of road bases and shoulders is another Road Saver® benefit. Road Saver helps in road base stabilization by increasing base strength and reducing compaction costs. On road shoulders, Road Saver® will maintain a firm, tight surface increasing shoulder safety and reducing maintenance costs.

## **HOW DOES ROAD SAVER® WORK?**

One application of Road Saver® on soil or unpaved roads puts four stabilizing mechanisms to work simultaneously:

- 1) Hygroscopicity of magnesium chloride activates high surface tension strength.
- 2) Particle charge bonding adds strength to the fine ground soil particles.
- 3) Adhesive properties work to bind the soil particles together.
- 4) Chemical composition increases surface compaction, providing the soil particles with greater interlocking strength.

Because of these mechanisms, Road Saver® is highly effective under most road conditions, in low relative humidity as well as high.

## **HOW SHOULD I PREPARE MY ROAD FOR APPLICATION?**

Before spraying roads for dust control, road surface preparation is extremely important, but not necessarily difficult or costly. The better the conditions, the more successful the dust control application will be.

If the surface is permeable, smooth, firm and shaped for drainage, it's ready for application. In other words, before applying Road Saver®, make sure that ruts, washboards, potholes, drainage problems, gravel segregation and hard impervious areas have been rectified. While correct surface preparation need not be difficult, it is very important in the overall success of the dust control treatment.

*BLADING* will take care of problems like ruts, potholes, wash-boarding and gravel segregation and will provide a smooth, well-drained surface. And that's not even necessary if the surface is already smooth, shaped and evenly mixed.

*COMPACTING* should be performed if blading loosens the surface. Don't forget to water the surface before compacting. This procedure will restore a dense, tight surface.

*PREWATERING* (ideally to a depth of 3 to 4 inches) will break the surface tension and allow maximum penetration before applying Road Saver. If the surface is too tight for easy water penetration, it should be bladed and re-compacted, creating a firm but easily penetrated surface. For the best results, the surface should be pre-watered several hours before the Road Saver application. If an extensive area is to be covered, it can be pre-watered the afternoon or evening before application. But no matter when you pre-water, remember that the surface should be damp at the time of application to extend the life of the application.

### **HOW MUCH SHOULD BE APPLIED?**

We recommend applying .5 gallons per square yard, applied in two .25 gallons per square yard applications. The second application can be made as soon as the first has penetrated. This procedure will minimize runoff and obtain deep, even penetration. Other application rates can be used, but the basic rate is best for first time applications and for the longest length of dust control. The basic rate usually provides control and stabilization for six to twelve months without reapplication.

Reapplication should be made prior to complete utilization of the previous treatment or before excessive dust occurs. This will prevent loss of the fine grained soil particles and protect the investment in road surfacing gravel. The amount of residual dust control remaining in the surface often allows a lower rate to be used for reapplication. EnviroTech can assist in the selection of application rate.

### **WHAT IF MY ROAD HAS BEEN TREATED BEFORE?**

Roads previously treated with other products such as waste oils or asphalt products can prevent penetration and adherence of Road Saver®. EnviroTech can suggest ways to overcome this problem.

### **HOW DO I GET THE BEST RESULTS?**

Road Saver® performs best when applied to a soil or gravel road surface that is smooth, firm and shaped for drainage. The road should be pre-watered to a depth of 3 to 4 inches creating a surface that is moist but not saturated.

### **WHAT ABOUT TRAFFIC?**

Traffic will have little effect on the treatment during application, but should be held off if possible, until the dust control has penetrated. If traffic cannot be held up, it should be slowed to around 10 miles per hour to minimize splashing and coating on vehicles.

### **HOW DO I PLACE AN ORDER?**

Contact your salesperson, or call our main office at 1-800-369-3878. We'll be sure to put you in touch with the right person and take care of your dust control needs.