



Technical Information
Dust-Off®
Dust Suppressant

DESCRIPTION:

Dust-Off® Dust Suppressant is an aqueous solution whose primary active component is magnesium chloride. It is manufactured by solar evaporation of seawater. It provides excellent dust suppression.

COMPLIANCE:

Dust-Off Dust Suppressant is not approved for human or animal consumption. It is intended for use only as a dust suppressing road treatment and road base stabilizer.

ADDITIVES:

Dust-Off® Dust Suppressant consists primarily of "liquid bitters," a natural product produced by the evaporation of seawater. Naturally occurring corrosion inhibitors make Dust Off less corrosive than standard calcium and magnesium chloride solutions.

APPLICATIONS:

Dust-Off® Dust Suppressant is intended for use as a dust palliative. It is both hygroscopic and deliquescent, and is thus able to absorb and retain moisture from the air. Its components combine with elements in the soil to increase compaction and thus increase road stabilization. Depending on the quality of the road base and the type of vehicular traffic, one application per year is usually sufficient. On heavily traveled roads a touch-up application may be necessary. This product works best if the road contains the proper proportion of coarse and fine fractions. The road should be graded and crowned for proper drainage. Roads subject to high traffic should be compacted. Oil-base treated surfaces may require special pretreatment for positive penetration. For best results, apply the product using a spreader truck equipped with a pressurized spray bar at the rate of 1/2 gallon per square yard.

CAUTION: **Dust-Off®** is a concentrated salt solution and like all salt solutions should be handled with care. **Dust-Off®** must not be applied to crops or plant life. Application must be performed so that there is no runoff from the intended area. This is especially true in areas where there are adjoining streams or waterways.

Dust-Off® is intended for use on unimproved roads. Applying **Dust-Off®** to pavement may cause slippery conditions. Care must be taken not to apply **Dust-Off®** in locations that will track onto pavement. Application should be discontinued before junction with paved roads.

Some soils such as clay, can become slippery when applying **Dust-Off®**. Consult your distributor on what types of roads and soil types work best with **Dust-Off®**.

PACKAGING AND SHIPPING:

Dust-Off® Dust Suppressant is available only in bulk form. Bulk quantities are shipped by rail or truck.

CARGILL SALT

P.O. Box 5621
Minneapolis, MN 55440
1-888 385-7258

STORAGE AND HANDLING PRECAUTIONS:

Dust-Off® Dust Suppressant requires normal precautionary measures for the safe handling of liquids, i.e., goggles and flushing of skin contact areas with fresh water. Prolonged storage or subjecting this product to temperatures below 0°F (-17.8°C) can result in the formation of magnesium sulfate crystals.

CHEMICAL ANALYSIS:

Component	Units	Typical	Specification
Total Magnesium (as MgCl ₂)	%	31.0	30 - 33
Magnesium (as Mg)	%	-	7.4 min.
Chloride (as Cl)	%	-	25.0 max.
Sulfate (as SO ₄)	%	1.5	3.0 max
Other	%	-	1.5 max.
Water	%	-	65.5 max.
pH, as is		-	5.5 - 6.5

PHYSICAL PROPERTIES:

Component	Units	Typical	Specification
Density	lbs./g al.	-	10.88 - 11.24
Specific Gravity (at 60°/60°F)	SGU	-	1.301 - 1.349

PRODUCT BENEFITS:

Suppresses dust without the need of petroleum-based products.

TECHNICAL ASSISTANCE:

Technical representatives are available for assistance in applications development, troubleshooting and help in resolving customer service issues.

METHODS OF ANALYSIS:

Methods of analysis and product performance evaluation are taken from the ASTM designations E534-98, from ASTM G31-72, and from the Cargill Central Research Laboratory.

PRODUCING LOCATION: NEWARK, CA

No. 7900 Revised May 2012

NOTICE: All of the above statements, recommendations, suggestions and data are based on our laboratory results, and we believe same to be reliable. Nevertheless, with the exception of data showing an express guaranty (such as in the case of products specifically designed for use as nutrient supplements), all such statements, recommendations, suggestions and data hereinabove presented are made without guaranty, warranty or responsibility of any kind on our part.