

ELK MEADOWS LANE
DUST ABATEMENT PROJECT

Elk Meadows Lane is a well-maintained County Road that is heavily used in the spring, summer and fall. Much of the use is by residents who live along the road who access their property from the road. In addition, the road is used by the recreating public who appear to use Elk Meadows Lane as short cut to Discovery Road and off-road recreation opportunities. Off road vehicles, motorcycles, and atvs, use Elk Meadows often traveling at high speed. Construction related traffic is significant on the Lane as well.

All these users have one thing in common, "dust". As traffic increases on Elk Meadows Lane during the snow free seasons more dust is generated and disseminated to property along the road. The dust is a safety and health hazard.

I have been in contact with Anaconda-Deerlodge County's road supervisor, Wayne Wendt, who has agreed to work with us. The County will prepare the road for application of dust abatement treatment but the users must foot the bill for the dust abatement product.

I have also contacted several landowners both in and adjoining the Elk Meadows Subdivision who agree dust abatement is desperately needed.

The product used for dust abatement is Dust Off, produced by Cargill. The vendor is W.E.Dust <https://www.wedustcontrol.com> based in Whitehall, Montana. Basically, the product's active ingredient is magnesium chloride, a salt that binds the road surface together and pulls moisture from the air to suppress dust. This product is widely used for dust abatement and also deicing. It is applied to municipal streets and state and federal highways to remove ice. I have personal experience with the product for dust control where logging activity generated dust. I found that not only does the product suppress dust but it also reduces wear and tear on the road surface. After treatment the road appears to have been paved. In some cases, depending on the amount of traffic and type of road surface the dust abatement treatment may remain effective into a second season. Additional information concerning Dust Off may be found in the attached documents. Estimated cost is between \$1-\$1.10 per linear foot.

I have measured the road distances of Elk Meadows Lane and lateral roads as displayed in the following table.

The distances displayed below were measured using a handheld GPS unit and should be considered the approximate distance.

W.E. Dust estimated the cost at \$1.00 to \$1.10 per linear foot. The cost could vary depending on product and transportation costs.

Road/Street	Linear Feet and cost @ \$1.00/foot	Cost @ \$1.10/linear foot
Elk Meadows Lane from Brown Derby Lane to Elk Meadows Subdivisions southern arch	2867.4	3154.14
Elk Meadows Subdivision from Southern Arch to Northern Arch	6336	6969.6
Fire Lane from Northern Arch to Discovery Road	6283.2	6911.54
Total	15486.6	17035.24

Road distances within the Elk Meadows Subdivision

Road/Street	Linear Feet and cost @ \$1.00/foot	Cost @ \$1.10/linear foot
Mule Deer Lane	2245.2	2469.5
Moose Lane	735.9	809.49
Bear Claw	219	240.9
Bear Cub	2113.8	2325.18
Total	5313.9	5842.07

Therefore, the cost of treating Elk Meadows Lane through the Elk Meadows Subdivision is estimated to be between \$6336 and \$6969. Considering the environmental and human health issues associated with the dust and the fact that residents of Elk Meadows Lane Subdivision are not only at least partially responsible for generating the dust and directly impacted by the dust I strongly recommend that the HOA participate in financing the dust abatement program. I intend to write to the 18 landowners with property south of Elk Meadows Subdivision between the South Arch and Brown Derby Lane in an effort to get them on board with the dust abatement program.

Elk Meadows Lane receives the heaviest traffic and therefore produces the most dust of all the roads in the Subdivision. I propose treating it and monitoring the dust problem on the other subdivision roads to determine if they need treatment.

While it appears Elk Meadows HOA currently has sufficient funds to pay for this treatment an adjustment in dues could be considered to cover future treatment.

If you have any questions feel free to contact me.

Mark Petroni

406-581-5722

mrkpetroni@gmail.com



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Magnesium Chloride, Magnesium Sulfate
Chemical Family	Alkali Metal/Halide
Chemical Name	Aqueous Magnesium Chloride and Magnesium Sulfate
Formula	MgCl ₂
Molecular Weight	95.22
Commercial Name	Dust-Off® Dust Suppressant

Manufacturer

Cargill Salt
P. O. Box 364
Newark, CA 94560.0364

Emergency Telephone Numbers

CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description

Clear liquid.

Ingredient Name**CAS Number**

Magnesium Chloride 7786-30-3

Magnesium Sulfate 7487-88-9

Exposure Limits**Concentration (%)**

29 - 33

1.0 - 3.8

Water

63 - 70

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None

Potential Health Effects

Route(s) Of Entry: Inhalation, Skin, Ingestion.

Human Effects and Symptoms of Overexposure: Ingestion of large amounts can cause gastrointestinal upset and irritation of the stomach. No applicable information found for chronic systemic effects.

Acute Inhalation: Mist may cause slight irritation of nose; unlikely entry route.

Chronic Inhalation: Not Applicable

Acute Skin Contact: May cause minor irritation to sensitive persons.

Chronic Skin Contact: Not Applicable

Acute Eye Contact: Irritation; inflammation.

Chronic Eye Contact: Not Applicable

Acute Ingestion: May cause nausea or vomiting.

Chronic Ingestion: Not Applicable

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: Possible skin irritation to sensitive persons.

4. FIRST AID MEASURES

First Aid For Eyes: For eye contact, flush eyes with large amounts of water, lifting eyelids occasionally.

First Aid For Skin: Flush with water.

First Aid For Inhalation: Remove to fresh air. Inhalation is an unlikely entry route.

First Aid For Ingestion: Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

5. FIRE AND MEASURES

Flash Point: Not Applicable

Extinguishing Media: Not Applicable. This product is nonflammable.

Special Fire Fighting Procedures: May use a self-contained breathing apparatus if temperatures exceed 300 degrees F. (149 degrees C.).

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Contain spills to prevent contamination of water supply or sanitary sewer system. Dispose of according to local requirements.

7. HANDLING AND STORAGE

Storage Temperature (min./max.):

Special Sensitivity: Do not apply directly to plant foliage or root zones, as concentrated magnesium chloride solutions may cause partial or complete defoliation. This product is designed to control dust on unpaved surfaces. Application of excessive amounts of Dust-Off directly adjacent to or directly upon paved surfaces may result in slippery conditions which present a safety hazard for foot and vehicular traffic.

Handling and Storage Precautions: Prolonged storage or subjecting the materials to temperatures below 30 degrees F. (-1 degree C.) can result in the formation of magnesium sulfate crystals. May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F (149 degrees C.) Under normal applications, decomposition should not occur. Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Requirements: Eyeglasses or goggles may be worn.

Skin Protection Requirements: Normal work gloves are adequate. Protective clothing may be worn, but is generally not required. Warm water showering and handwashing is suggested, if in direct contact with product, but is generally not required.

Respiratory/Ventilation Requirements: Not Necessary

Exposure Limits: Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Slightly viscous, brown/amber liquid with a slight saline odor.

Color: Brown/amber liquid

Odor: Slight saline odor.

Boiling Point (760mm Hg) (°C): 108-123°

Melt Point/Freeze Point (°C): N/A

PH: 5.5 – 6.5

Solubility In Water (g/cc, %): 100%

Specific Gravity (H₂O=1): 1.306

Bulk Density:

% Volatile By Weight:

Vapor Pressure (mm Hg/30°C): 7.5

Vapor Density (Air=1): N/A

10. REACTIVITY

Stability: Stable

Incompatibilities: Avoid contact with strong acids. Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

Decomposition Products: May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F. (149 degrees C.). Under normal applications, decomposition should not occur.

11. TOXICOLOGICAL INFORMATION

Description: Not Listed

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not Listed

Environmental Degradation: Not Listed

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: For disposal of this material as a waste, act in accordance with all applicable Federal, state, and local waste management regulations.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Listed

Technical Shipping Name: Not Listed

D.O.T Hazard Class: Not Listed

U.N./N.A. Number: Not Listed

Product Rq (lbs.): Not Listed

D.O.T. Label: Not Listed

D.O.T. Placard: Not Listed

Freight Class Bulk: Not Listed

Freight Class Package: Not Listed

Product Label: N/A

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Not Listed

Cercla reportable Quantity

SARA Title III

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Hazard categories: Not Listed

Section 313

Toxic Chemicals: Not Listed

RCRA Status: Not Listed

State Regulatory Information

Component Name

/CAS Number

Concentration

State-Code

16. OTHER INFORMATION

Reason For Issue: Regulatory Communication

Prepared By: Steve Karl

Approved By: Sarah Hubert

Title: Director-Quality Administration

Approval Date: June 2010

Supersedes Date: May 2007

MSDS Number: ND11

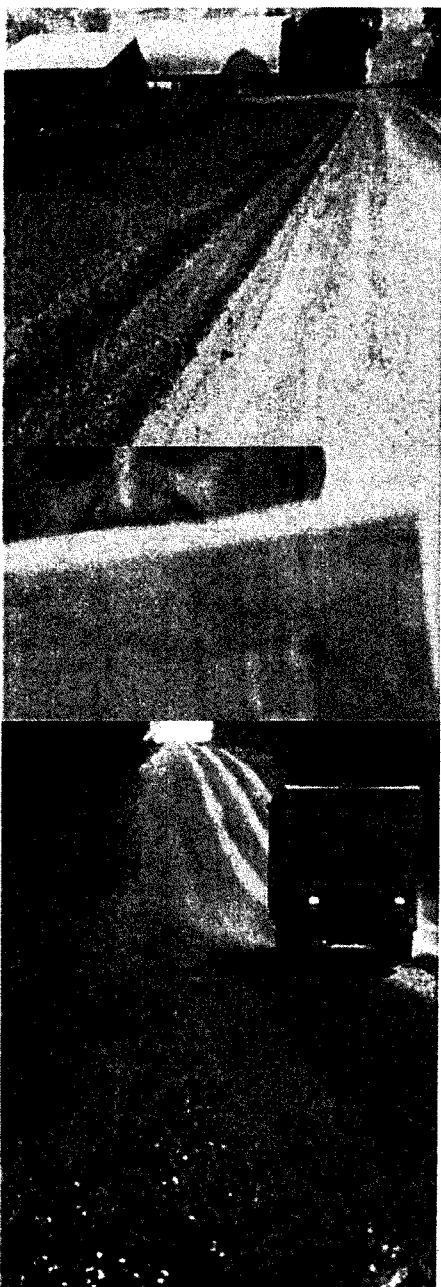
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This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.

Cost effective dust control and road stabilization

States and municipalities across America rely on Dust-Off® dust suppressant to provide an easy, money-saving way to control dust and stabilize roads. Discover how Dust-Off® can help your road department cut costs and promote better health, safety and productivity for your citizens.



Stabilize Roads, Extend Aggregate Life

Dust-Off® compacts and stabilizes gravel roads – helping to reduce aggregate loss by 42-61%.¹

Reduce Costly Road Maintenance

Cost analysis shows a 30-46% reduction in total annual maintenance cost for unpaved roads treated with magnesium chloride – the active ingredient in Dust-Off®.²

Keep Taxpayers Happy

Dust-Off® not only saves taxpayers money by reducing maintenance costs, it also helps keep roads smooth and more enjoyable to drive.

Improve Visibility, Prevent Accidents

Windblown dust can restrict visibility and cause accidents in high traffic areas. Dust-Off® improves visibility and makes roads safer to travel.

Low Cost Alternative to Paving

Dust-Off® provides an efficient, low cost alternative to paving – helping to keep less costly unpaved roads in excellent condition.

Cleaner Air, Healthier Environment

Road dust can contribute to asthma and other health problems. Dust-Off® cleans the air by reducing fugitive dust emissions by 50-70%.³

Keep Dust Down and Costs Low. Contact your local Dust-Off® distributor to learn more or call Cargill Salt at 1-888-385-SALT (7258).

1, 2, 3 Relative Effectiveness of Road Dust Suppressants; J. Transp. Engrg. Volume 123, Issue 5, pp. 393-397 (September/October 1997)



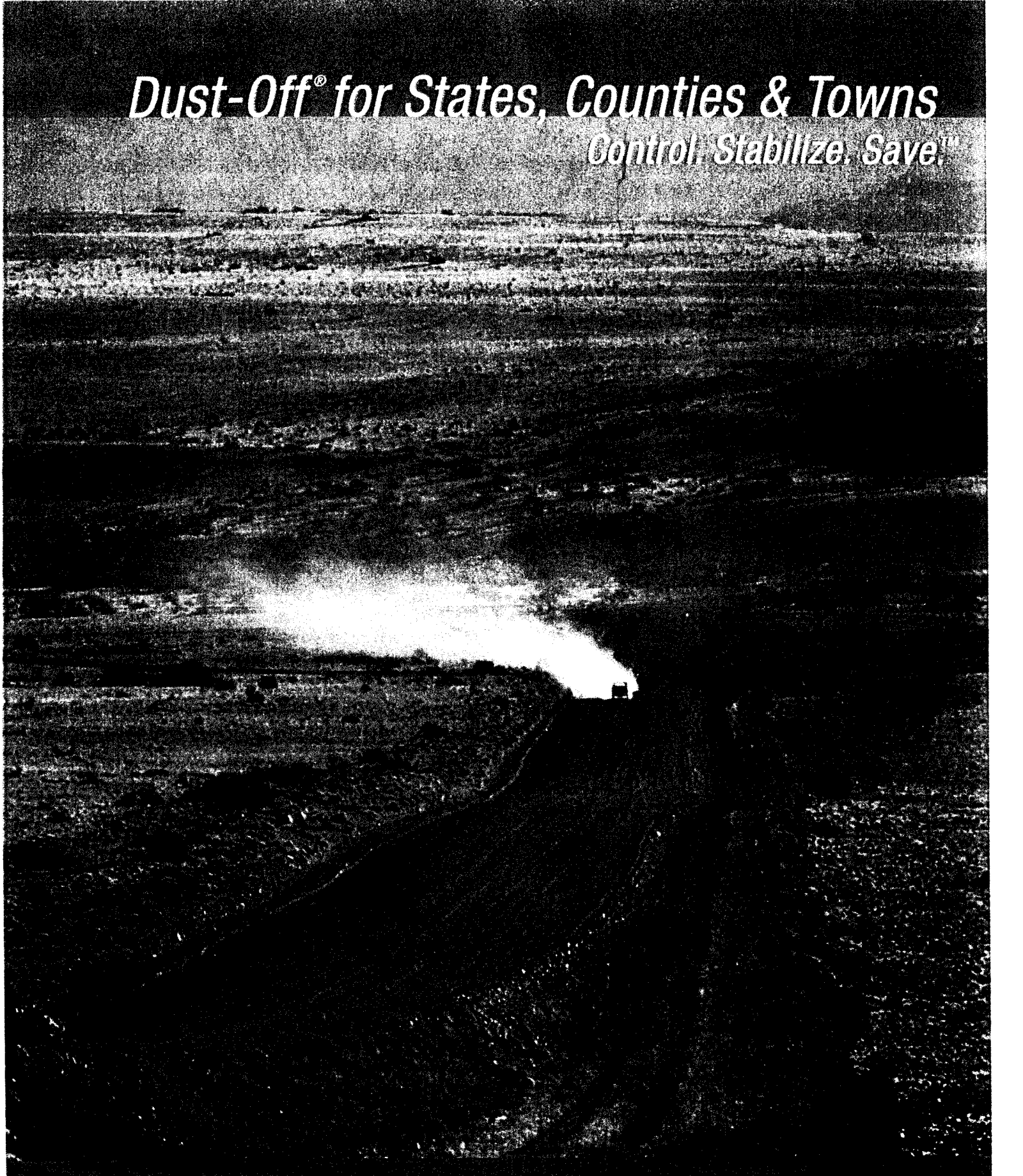
Cargill Salt
P.O. Box 5621
Minneapolis, MN 55440

www.cargillsalt.com

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