# APPENDIX H

## DUSTREAT DC9112 DESCRIPTION AND MATERIAL SAFETY DATA SHEET

GE Infrastructure
Water & Process Technologies

# *DusTreat™ DC9112*

Dust Control Binding Agent

- Provides excellent control of fugitive emissions on unpaved roads.
- Effective on a broad range of access and mine haul roads.
- Reduces costs associated with typical dust suppression programs.
- Effective on coal, ores, and other bulk solid materials
- Controls dust in active storage piles

### *Description and Use*

DusTreat™ DC9112 is a binder specifically formulated to control fugitive dust from storage piles and haul roads. This product is biodegradable and does not contain corrosive chloride compounds or waste oils. DusTreat DC9112 solutions are particularly effective in reducing respirable dust.

Fugitive dust is typically generated by moving vehicles and wind. These dust emissions can be a safety hazard, an environmental nuisance, and can increase maintenance of material handling equipment. In addition, these emissions can represent a substantial loss of valuable fuel.

Fugitive emissions can be significantly reduced by applying DusTreat DC9112 as a dilute solution from a water truck equipped with sprays. Dilution range will range from 1 –50% and depends on the type of traffic and road material.

### *Treatment and Feeding Requirements*

Proper treatment levels for DusTreat DC9112 depend on many factors, such as severity of the problem, environmental influences and operating characteristics of the system. Therefore, this product should be used in accordance with the control parameters that GEWPT establishes for the application.

Maximum efficiency and minimum cost is ensured by using GEWPT wet suppression systems. These systems are fully automated and custom sized per site specifications to provide reliable and economical chemical treatment. While optimal results are obtained with GEWPT equipment, DusTreat DC9112 can be used in other feed systems. Check with your GEWPT representative for material compatibility information.

For contact with neat product, recommended materials of construction include stainless steel and PVC. For dilute aqueous solutions, use of mild steel is acceptable.

### *General Properties & Safety*

Physical properties of DusTreat DC9112 are shown on the Material Safety Data Sheet, a copy of which is available on request.

### *Storage*

DusTreat DC9112 should be stored at temperatures above freezing. To ensure maximum activity, use this product within six months.

### *Packaging Information*

DusTreat DC9112 is a liquid blend available in a wide variety of customized containers and delivery methods. Contact your GEWPT representative for details.

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imagination at work

Company logo

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
Business telephone: (215) 355-3300

Material Safety Data Sheet

Issue Date: 29-MAR-2002

**EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940**

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## 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

**DUSTREAT DC9112**

PRODUCT APPLICATION AREA:

**DUST CONTROL AGENT.**

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

**HAZARDOUS INGREDIENTS:**

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

## 3 HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW**

**CAUTION**

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Emergency Response Guide is not applicable
Odor: Sweet; Appearance: Dark Brown, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**
Primary route of exposure; May cause slight irritation to the skin.

**ACUTE EYE EFFECTS:**
May cause moderate irritation to the eyes.

**ACUTE RESPIRATORY EFFECTS:**
Mists/aerosols may cause irritation to upper respiratory tract.

**INGESTION EFFECTS:**
No adverse effects expected. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, diarrhea and weakness may occur.

**TARGET ORGANS:**
No evidence of potential chronic effects.

**MEDICAL CONDITIONS AGGRAVATED:**
Asthma.

**SYMPTOMS OF EXPOSURE:**
May cause redness or itching of skin.

## 4 FIRST AID MEASURES

**SKIN CONTACT:**
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**EYE CONTACT:**
Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

**INHALATION:**
If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

**INGESTION:**
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

**NOTES TO PHYSICIANS:**
No special instructions

## 5 FIRE FIGHTING MEASURES

**FIRE FIGHTING INSTRUCTIONS:**
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

**EXTINGUISHING MEDIA:**
dry chemical, carbon dioxide, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition (destructive fires) yields elemental oxides.

**FLASH POINT:**

> 200F > 93C P-M(CC)

## 6 ACCIDENTAL RELEASE MEASURES

**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

**DISPOSAL INSTRUCTIONS:**

Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

## 7 HANDLING & STORAGE

**HANDLING:**

Normal chemical handling.

**STORAGE:**

Keep containers closed when not in use. Reasonable and safe chemical storage. Protect from freezing.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS**

This product is not hazardous as defined by OSHA regulations.

**ENGINEERING CONTROLS:**

adequate ventilation

**PERSONAL PROTECTIVE EQUIPMENT:**

Use protective equipment in accordance with 29CFR 1910 Subpart I

**RESPIRATORY PROTECTION:**

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

**SKIN PROTECTION:**

neoprene gloves-- Wash off after each use. Replace as necessary.

**EYE PROTECTION:**

splash proof chemical goggles

## 9 PHYSICAL & CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| Specific Grav.(70F,21C) | 1.311 | Vapor Pressure (mmHG) | ~ 18.0 |
| Freeze Point (F) | 20 | Vapor Density (air=1) | < 1.00 |
| Freeze Point (C) | -7 | | |
| Viscosity(cps 70F,21C) | 250 | % Solubility (water) | ~ 100.0 |

Odor Sweet

| | | |
|---|---|---|
| Appearance | | Dark Brown |
| Physical State | | Liquid |
| Flash Point | P-M(CC) | > 200F > 93C |
| pH As Is (approx.) | | 6.4 |
| Evaporation Rate (Ether=1) | | < 1.00 |

**NA = not applicable ND = not determined**

## 10 STABILITY & REACTIVITY

**STABILITY:**
Stable under normal storage conditions.
**HAZARDOUS POLYMERIZATION:**
Will not occur.
**INCOMPATIBILITIES:**
May react with strong oxidizers.
**DECOMPOSITION PRODUCTS:**
Thermal decomposition (destructive fires) yields elemental oxides.
**INTERNAL PUMPOUT/CLEANOUT CATEGORIES:**
"A"

## 11 TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Oral LD50 RAT: | >5,000 mg/kg |
| Dermal LD50 RABBIT: | >2,000 mg/kg |
| NOTE - Estimated value | |
| Skin Irritation Score RABBIT: | 0 |
| Ames Assay : | NEGATIVE |
| Non-Ames Mutagenicity : | NEGATIVE |

NOTE - Mouse Micronucleus; Unscheduled DNA Synthesis

## 12 ECOLOGICAL INFORMATION

**AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Static Screen
0% Mortality= 2000 mg/L
Fathead Minnow 48 Hour Static Screen
0% Mortality= 2000 mg/L
Rainbow Trout 96 Hour Static Bioassay with 48-Hour Renewal
0% Mortality= 2000 mg/L

**BIODEGRADATION**

BOD-28 (mg/g): 208
BOD-5 (mg/g): 110
COD (mg/g): 750
TOC (mg/g): 240

## 13 DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding

the proper disposal of this material.

## 14 TRANSPORT INFORMATION

| | |
|---|---|
| DOT HAZARD: | Not Applicable |
| UN / NA NUMBER: | Not applicable |
| DOT EMERGENCY RESPONSE GUIDE #: | Not applicable |

## 15 REGULATORY INFORMATION

**TSCA:**

All components of this product are listed in the TSCA inventory.

**CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):**

No regulated constituent present at OSHA thresholds

**SARA SECTION 312 HAZARD CLASS:**

Product is non-hazardous under Section 311/312

**SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**CALIFORNIA REGULATORY INFORMATION**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:**

No regulated constituent present at OSHA thresholds

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 OTHER INFORMATION

| **NFPA/HMIS** | | **CODE TRANSLATION** |
|---|---|---|
| Health | 1 | Slight Hazard |
| Fire | 1 | Slight Hazard |
| Reactivity | 0 | Minimal Hazard |
| Special | NONE | No special Hazard |
| (1) Protective Equipment | B | Goggles,Gloves |

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

**CHANGE LOG**

| | EFFECTIVE DATE | REVISIONS TO SECTION: | SUPERCEDES |
|---|---|---|---|
| MSDS status: | 29-JAN-1997 | | ** NEW ** |
| | 25-FEB-1998 | 12 | 29-JAN-1997 |
| | 30-APR-1998 | 8;EDIT:9 | 25-FEB-1998 |
| | 20-JUL-1998 | 8;EDIT:9 | 30-APR-1998 |
| | 29-MAR-2002 | 4,12 | 20-JUL-1998 |