



OPTIWET DG

GRANULAR SOIL WETTING AGENT

PRINCIPAL FUNCTIONING AGENTS:

Polypropoxylated and polyethoxylated polymers and copolymer blend on inert organic carrier..... 100%
NON-PLANT FOOD INGREDIENT

KEEP OUT OF REACH OF CHILDREN CAUTION

Avoid contact with skin, eyes or clothing. Do not take internally. Wear chemical-resistant eyewear and gloves, long-sleeve shirt and pants and shoes and socks. Do not eat, drink, smoke or chew gum while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. In addition, follow precautionary statements on all products used with this material. Clean affected clothing, shoes, and protective equipment before reuse.

FIRST AID

Call a poison control center or doctor immediately for treatment advice.

Have the product container with you when calling a poison control center or doctor, or going for treatment.

If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye.

NET CONTENTS:
50 Pounds
(22.68 kilograms)



2328 E. Lincoln Hwy. #320 • New Lenox, IL 60451

GENERAL INFORMATION

When compaction from heavy use, high levels of surface organic matter, or mineral salt crusting from frequent irrigation cause soil to become water resistant, the nonionic wetting agent in **OptiWet DG** will improve the rate and depth of water infiltration, increase soil moisture uniformity in the root growing zone and begin to correct the problems associated with Localized Dry Spots (LDS). This dry granular formulation of **OptiWet DG** allows flexibility of application methods in areas where solution based treatments can be problematic such as slopes, slit seeding operations and rehabilitation of compacted turf with core aeration or to correct the water resistance than can result from native area maintenance burning.

OptiWet DG can be used as a seasonal residual wetting agent to reduce turf stress on sod farms, athletic fields and golf courses and is also recommended for irrigation management when planting ornamentals or to follow a hydro-seeding operation.

DIRECTIONS FOR USE

Use a conventional rotary or drop spreader that has been calibrated to the manufacturer's recommendations. Apply on a calm day when the soil is dry, but irrigation is available within 24 hours.

APPLICATION RATES

Broadcast spreader, first application	4 to 6 pounds per 1000 square feet
Second and subsequent applications	2-3 pounds per 1000 square feet
As a wetting additive to bulk horticultural soils	4 ounces per 25 cubic feet

Subsequent applications may be 60 days apart depending on the environmental conditions and turf response.

Follow with a full irrigation cycle within 24 hours after application to activate **OptiWet DG** and assure good contact with the soil.

STORAGE AND DISPOSAL

Storage: Store in a cool, dry place. Do not store near fire, flame or other potential sources of ignition. Do not contaminate water, food or feed by storage or disposal of this product.

Disposal: Bags and materials must be disposed of in a manner allowed by local, state and federal laws and regulations.

WARRANTY

Seller warrants that this product consists of the ingredients specified and is reasonably made for the purpose stated on this label when used in accordance with directions under normal conditions of use. No one other than Seller is authorized to make any warranty, guarantee or direction concerning this product. Because the time, place, rate of application and other conditions of use are beyond the Seller's control, Seller's liability from handling, storage and use of the product is limited to replacement of product or refund of purchase price.

MATERIAL SAFETY DATA SHEET

OPTIWET DG

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS DATE: 12/14/12 SUPERSEDES: None

PRODUCT NAME:

DISTRIBUTOR: ADDRESS:

CHEMTREC PHONE:

CHEMICAL NAME: CHEMICAL FAMILY: CHEMICAL FORMULA:

OPTIWET DG

Advantage Systems.
2328 E. Lincoln Hwy. #320 · New Lenox, IL 60451

US: 1-800-424-9300 International: 1-202-483-7616

Proprietary mixture
Blend of nonionic surfactants on a dry carrier Mixture

PRODUCT USE:

SECTION 1 NOTES:

SECTION 2: HAZARDOUS INGREDIENTS

Pest control adjuvant None

OSHA

STEL Ceiling

Ethylene oxide 75-21-8 <1 ppm

SECTION 2 NOTES: Product does NOT contain any pesticides or pest control agents *See section 15

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: Causes moderate eye irritation.

SKIN: May cause mild skin irritation. **INGESTION:** Harmful if swallowed. **INHALATION:** Harmful if inhaled.

ACUTE HEALTH HAZARDS: None known beyond above
CHRONIC HEALTH HAZARDS: None known
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

ACGIH
TWA STEL Ceiling

1 ppm

INGREDIENT CAS NO. % WT/% VOL

SARA 313 REPORTABLE No

TWA

1 ppm

5ppm/15min

CARCINOGENICITY
OSHA: No **ACGIH:** No **NTP:** No **IARC:**

SECTION 3 NOTES: None

No **OTHER:** See section 15, State Regulations

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MATERIAL SAFETY DATA SHEET MSDS DATE: 12/14/12

OPTIWET DG **SUPERSEDES:** None

SECTION 4: FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Product does NOT contain a pesticide or pest control product.

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES FLAMMABLE LIMITS IN AIR, UPPER: Unknown

(% BY VOLUME) LOWER:

Unknown

FLASH POINT:

METHOD USED:

AUTOIGNITION TEMPERATURE:

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: -

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical or foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and avoid breathing fumes or dust. **UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sweep up material and reuse if not contaminated. If contaminated, place material in a suitable container for proper disposal. Flush spill area with water, absorb and place in

same containers with other material. **SECTION 6 NOTES:** None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep bags closed at all times. Store materials in a cool, dry area, and away from oxidizing agents. Dispose

of in accordance with federal, state, and local regulations. **SECTION 7 NOTES:** None

F: >200 **C:** >93

PMCC Unknown

F: C:

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MATERIAL SAFETY DATA SHEET MSDS DATE: 12/14/12

OPTIWET DG SUPERSEDES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION :

RESPIRATORY PROTECTION:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Not necessary unless ventilation is inadequate. If dust is present, use MSHA or NIOSH approved dust mask, as appropriate.

EYE PROTECTION:

SKIN PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash stations, safety showers

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR:

PHYSICAL STATE:

pH AS SUPPLIED: pH (Other): BOILING POINT:

F:

C: MELTING POINT:

F:

C: FREEZING POINT:

F:

C:

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1):

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1):

@

F: 68

C: 20 EVAPORATION RATE:

BASIS (butyl acetate=1):

SOLUBILITY IN WATER:

Green, granular Practically no odor Solid
Not applicable

Unknown Unknown

Unknown Unknown

Unknown Unknown Unknown

Unknown
Not applicable

Unknown

Dispersable Unknown

None

VISCOSITY: @

F: C:

SECTION 9 NOTES:

Safety goggles.
Impermeable gloves and footwear, long sleeves, long pants, rubber apron

Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

None known None

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MATERIAL SAFETY DATA SHEET

OPTIWET DG

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): None known

INCOMPATIBILITY (MATERIAL TO AVOID): None known

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under fire conditions, oxides of carbon

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None
SECTION 13: DISPOSAL CONSIDERATIONS

MSDS DATE: 12/14/12 SUPERSEDES: None

This material must be disposed of according to federal, state or local procedures under the resource conservation and recovery act.

RCRA HAZARD CLASS:
SECTION 13 NOTES:
SECTION 14: TRANSPORT INFORMATION U.S. DEPARTMENT OF TRANSPORTATION

WASTE DISPOSAL METHOD:

Not regulated None

PROPER SHIPPING NAME: HAZARD CLASS:
ID NUMBER:
PACKING GROUP:

LABEL STATEMENT: SECTION 14 NOTES:

Not regulated Not regulated Not regulated Not regulated Not regulated

None

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MATERIAL SAFETY DATA SHEET **MSDS DATE: 12/14/12**
OPTIWET DG SUPERSEDES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed or excluded from listing on the US Toxic

Substance Control Act (TSCA) Chemical Substance Inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Chemical Name
Glycol ethers (fraction of product matching EPA definition) Residual ethylene oxide (typical)

CAS Number Mixture 75-21-8

Range in % RQ 0.1-0.299 1 <0.001 10

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302/304 Extremely Hazardous Substances

Chemical Name CAS Number Residual ethylene oxide (typical) 75-21-8

311/312 HAZARD CATEGORIES:

Range in % TPQ RQ
<0.001 Below reportable concentrations

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

313 REPORTABLE INGREDIENTS:

CAS Number Chemical Name
Mixture Glycol ethers (fraction of product matching EPA definition)

STATE REGULATIONS:

Concentration 0.1-0.299

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide standard (29) CFR 1910.1047).

SECTION 15 NOTES: None **SECTION 16: OTHER INFORMATION**

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared on 12/14/2012

DISCLAIMER:

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

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