



OPTIWET ULTRA

SOIL WETTING AGENT

PRINCIPAL FUNCTIONING AGENTS:

Surfactants	40%
Constituents ineffective as a spray adjuvant.....	60%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN CAUTION

May cause skin or eye irritation. 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.

GENERAL INFORMATION

Increase the availability of water and nutrients in the root zone by improving the infiltration and penetration of irrigation or rainfall. Ideal for turf, athletic fields and other highly managed areas, **OptiWet Ultra** is made with a high surfactant load that provides more of the necessary tools used to manage hydrophobic soils and the problems commonly associated with them.

DIRECTIONS FOR USE

For use on turfgrass such as on golf courses or other highly managed athletic fields. Schedule application before precipitation or a regular irrigation session to move **OptiWet Ultra** into the soil faster. For best results, apply **OptiWet Ultra** at the rates shown below on a periodic basis before signs of stress appear, such as a weekly program.

APPLICATION RATES

Irrigation system injection - Apply at a rate equivalent to 1.5 to 3 pints or 24 to 48 ounces per acre in pressurized irrigation systems.

Conventional spray system - Apply at a rate equivalent to 1.5 to 3 pints or 24 to 48 ounces per acre. Coordinate application with precipitation or regular irrigation cycle.

Compatible with most turf chemicals when tank mixing. Before application always conduct a jar test to evaluate compatibility. Apply to a small area to determine the effect on turf quality.

Transplant Shock - Apply at 1.5 pints or 24 ounces per 1000 gallons of water to facilitate soil wetting while transplanting.

STORAGE AND DISPOSAL

Storage: Store in a cool, dry place. Store in original container only. Do not add anything to the container. Keep container tightly sealed when not in use. 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. For optimal storage, store between 40 and 90 F.

Disposal: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. Recycling decontaminated containers is the best option of container disposal if allowed by law. Decontaminated containers 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.

NET CONTENTS:



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

MATERIAL SAFETY DATA SHEET

OptiWet Ultra

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: OptiWet Ultra

MSDS DATE:1/8/13 SUPERSEDES: 9/5/12

MANUFACTURED FOR: ADDRESS:

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

CHEMTREC (OR EMERGENCY) PHONE:

US: 1-800-424-9300

International: 1-202-483-7616

CHEMICAL NAME: CHEMICAL FAMILY: CHEMICAL FORMULA:

PRODUCT USE:

SECTION 1 NOTES:

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT CAS NO. % WT/% VOL

Proprietary mixture Nonionic copolymer Mixture

Soil wetting agent None

SARA 313 REPORTABLE

TWA

OSHA

STEL Ceiling

ACGIH

TWA STEL Ceiling

1 ppm

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

No

May cause temporary redness and/or irritation. May cause temporary redness and/or irritation. Ingestion may result in diarrhea or weakness. Mists may cause upper respiratory tract irritation. None known beyond above

1 ppm

5ppm/15min

EYES:

SKIN: INGESTION: INHALATION:

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

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

SECTION 3 NOTES: None

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

PAGE 1 OF 5

MATERIAL SAFETY DATA SHEET MSDS DATE: 1/8/13

OptiWet Ultra **SUPERSEDES: 9/5/12**

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:

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES:

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

PMCC Unknown

F: C:

1 REACTIVITY: 0 1 REACTIVITY: 0

OTHER: -

PROTECTION: B

Water, carbon dioxide, dry chemical or foam

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

None known Oxides of carbon None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Absorb with an inert absorbent. Sweep up and place in an appropriate closed container. Clean up

residual material by washing area with water. Collect washings for disposal. **SECTION 6**

NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Keep container tightly closed. Store in original container only. Do not add water to the contents of this

container. Triple rinse container, empty rinse water into spray or stock tank. Dispose of empty containers in

accordance with federal, state, and local law. **SECTION 7 NOTES:** None

PAGE 2 OF 5

MATERIAL SAFETY DATA SHEET MSDS DATE: 1/8/13

OptiWet Ultra **SUPERSEDES: 9/5/12**

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. Then use MSHA or NIOSH approved respirator, as appropriate.

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:

Clear to hazy viscous liquid Mild odor
Liquid
3.4

Unknown

Unknown Unknown

Unknown Unknown

Unknown Unknown Unknown

Unknown

~1.0

Unknown

Soluble Unknown

None

VISCOSITY: @

F: C:

SECTION 9 NOTES:

Chemical splash goggles.
Impermeable gloves, long sleeves, long pants, rubber apron

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

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

MATERIAL SAFETY DATA SHEET

OptiWet Ultra

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:1/8/13 SUPERSEDES: 9/5/12

WASTE DISPOSAL METHOD:

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION U.S. DEPARTMENT OF TRANSPORTATION

Material may be landfilled or burned if allowed by law. Stay out of smoke. Dispose of properly according to all laws and regulations

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

MATERIAL SAFETY DATA SHEET MSDS DATE:1/8/13

OptiWet Ultra **SUPERSEDES: 9/5/12**

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 CAS Number Range in % RQ

Residual ethylene oxide (typical) 75-21-8

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:

<0.001 10

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:

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimis concentration level.

STATE REGULATIONS:

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 1/8/13

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.

Advantage Systems

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

PAGE5OF 5