



OPTIWET MAX

SOIL WETTING AGENT

PRINCIPAL FUNCTIONING AGENTS:

Proprietary blend of nonionic surfactants 100%
TOTAL **100%**

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.

GENERAL INFORMATION

Unpredictable precipitation and expensive irrigation systems can be utilized more effectively and economically with **OptiWet Max**, a soil wetting agent which facilitates the infiltration of moisture into water resistant and compacted soils. **OptiWet Max** is useful in restoring soil permeability and nutrient availability to areas where intensively managed turf and specialty plant care regimes have altered soil texture and limited water percolation through the soil profile. With regular use, **OptiWet Max** will help to prevent hydrophobic soil development, decrease run-off, encourage bulkier root mass, and manage irrigation water more efficiently and conservatively. After application, manual watering will be faster and more cost effective. **OptiWet Max** is highly concentrated and contains 100% active ingredient formulation.

NET CONTENTS:

DIRECTIONS FOR USE

For best results, begin treating before plant or soil symptoms appear. **OptiWet Max** is non-phytotoxic and will not burn. For maximum effectiveness, apply before precipitation or conventional irrigation to move product into the soil quickly. When used as directed **OptiWet Max** is beneficial as a shock reducing transplant spray.

APPLICATION RATES

2 - 4 oz./1000 sq. ft./Month under normal conditions

4 oz./1000 sq ft./Month during high drought stress conditions

If a early season load up application method is desired, apply OptiWet Max:

16 ounces in one application or two (2) individual, 8 ounce applications, 30 days apart

Normal conditions: 2-4 ounces OptiWet Max in a minimum of 2 gallons of water for every 1000 square feet per month.

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.

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.

Manufactured for:



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

MATERIAL SAFETY DATA SHEET

OptiWet Max

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT NAME:

MANUFACTURED FOR: ADDRESS:

CHEMTREC PHONE:

CHEMICAL FAMILY: CHEMICAL FORMULA:

PRODUCT USE:

SECTION 1 NOTES:

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT CAS NO. % WT/% VOL

Ethylene Oxide 75-21-8 <1 ppm **SECTION 2 NOTES:** None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, inhalation, ingestion **POTENTIAL HEALTH EFFECTS**

OptiWet Max

US: 1-800-424-9300

Surfactant blend Mixture

International: 1-202-483-7616

Soil Wetter None

Advantage Systems

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SARA 313 OSHA REPORTABLE TWA STEL

No 1 ppm

Ceiling

ACGIH

TWA STEL Ceiling

1 ppm

EYES: May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

SKIN: Brief contact is not irritating. Prolong contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.

INGESTION: Product not volatile at ambient temperatures. Vapors or mist in high concentrations, as generated from spraying or heating in an enclosed space, may cause minimal irritation.

INHALATION:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur.

ACUTE HEALTH HAZARDS: None known

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

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

SECTION 3 NOTES: None

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OptiWet Max **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: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: F: >200

C: >93

METHOD USED: PMCC

HMIS HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY: OTHER:

110- EXTINGUISHING MEDIA: Use water spray, dry chemical, or Carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES: UNUSUAL FIRE AND EXPLOSION HAZARDS:
HAZARDOUS DECOMPOSITION PRODUCTS: SECTION 5 NOTES:** None

Wear self-container breathing apparatus and avoid breathing fumes or dust. None Known.
Under fire conditions will form oxides of carbon

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: Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or

ammonium nitrate.

OTHER PRECAUTIONS: Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste.

SECTION 7 NOTES: None

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : Provide local exhaust ventilation to control vapours/mists.

RESPIRATORY PROTECTION: Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

EYE PROTECTION: Safety glasses with side-shields.

SKIN PROTECTION: Chemical resistant protective gloves. Body protection must be chosen based on level of activity and exposure.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear protective clothing as necessary to minimize contact.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing.

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR:
PHYSICAL STATE:

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

F: FREEZING POINT:

slightly milky, cloudy mild, product
Liquid
Not applicable

5 - 7.5 (2.5 %(m))

>300

C:
VAPOR PRESSURE (mmHg):

approx. -4 °C

< 0.1 mmHg **SPECIFIC GRAVITY (H2O = 1):** 1.03

@ C: 25°C

SOLUBILITY IN WATER: Soluble

PERCENT SOLIDS BY WEIGHT: >99%

PERCENT VOLATILE: <1%

VISCOSITY: 450 mPa.s **@ C:** 25°C

SECTION 9 NOTES: None **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): This product is stable when handled under the stated conditions

INCOMPATIBILITY (MATERIAL TO AVOID): This product may react violently with isocyanates. Avoid strong oxidizers. **HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Stable except when exposed to the above materials or fire conditions.

@ C: 25°C

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID (POLYMERIZATION): SECTION 10 NOTES:

Will NOT occur None
None

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MATERIAL SAFETY DATA SHEET

OptiWet Max

SECTION 11: TOXICOLOGICAL INFORMATION TOXICOLOGICAL INFORMATION:

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (Draize test)

Eye irritation :

rabbit: non-irritant (Draize test)

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Environmental fate and transport

Biodegradation:

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C

Method of analysis: CO₂ formation relative to the theoretical value Degree of elimination: > 60 % (28 d)

Evaluation: Readily biodegradable.

Environmental toxicity

Acute and prolonged toxicity to fish: golden orfe/LC50 (96 h): > 100 mg/l

Acute toxicity to aquatic invertebrates: EC50 (48 h): > 100 mg/l

Toxicity to aquatic plants: EC50 (72 h): > 100 mg/l

Toxicity to microorganisms:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from products of a similar structure and composition.

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in accordance with national, state and local regulations.

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

RCRA HAZARD CLASS: None **SECTION 13 NOTES:** None

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

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

Not classified as a dangerous good under transport regulations

WATER TRANSPORTATION

Not classified as a dangerous good under transport regulations

AIR TRANSPORTATION

Not classified as a dangerous good under transport regulations

OTHER AGENCIES:

Not classified as a dangerous good under transport regulations **SECTION 14 NOTES:** None

SECTION 15: REGULATORY INFORMATION U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): released / listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not hazardous **SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

302/304 Extremely Hazardous Substances: Residual ethylene oxide (typical) CAS:75-21-8 <1 ppm **311/312 HAZARD CATEGORIES:** See above

313 REPORTABLE INGREDIENTS: See above

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

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 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

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TPQ:1000

RQ:10

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