



OPTIWET NJECT

SALINITY AID – SOIL WETTER

PRINCIPAL FUNCTIONING AGENTS:

Proprietary Blend of Salinity Aids and Soil Wetters	22%
Inert ingredients	78%
TOTAL	100%



KEEP OUT OF REACH OF CHILDREN WARNING

Causes serious eye irritation. May be harmful if swallowed. May cause an allergic skin reaction. May cause respiratory irritation. Read label before use. Keep container tightly closed. Keep only in original container. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection and face protection.

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.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present, after the first 5 minutes, then continue

cautiously rinsing eye. If eye irritation persists: Get medical advice or attention.

SKIN CONTACT: Take off contaminated clothing and wash it before reuse. Wash skin with plenty of soap and water for several minutes. Call a poison center, doctor, chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.

INGESTION: Unless advised otherwise by a poison control center or doctor, have person rinse mouth with water, if able. Do not give anything by mouth to an unconscious person. Immediately call a poison center, doctor, chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.

INHALATION: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible.

GENERAL INFORMATION

NET CONTENTS:

OptiWet NJECT is a versatile salinity aid/irrigation surfactant combination. OptiWet NJECT contains a chelating agent that helps move salts out of the soil profile and into lower layers. OptiWet NJECT improves the infiltration of irrigation solutions into the soil profile and increases the availability of water and nutrients within the root growing zone. By improving percolation and chelating salts, OptiWet NJECT begins to rehabilitate soils that have been damaged by salinity build-up. OptiWet NJECT may be used on all turf including golf courses, athletic fields, commercial and residential lawns, sod farms and in ornamental and nursery operations.

Manufactured for:



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

DIRECTIONS FOR USE

OptiWet NJECT can be used all through the growing season and will not discolor or harm turf when applied according to label directions. For best results, OptiWet NJECT should be applied before the plants show signs of stress.

OptiWet NJECT will not interact with most tank additives or active formulations. To increase performance in hard water or where water quality is not ideal, use of OptiWet NJECT more often is recommended. Different conditions such as water hardness, temperature and humidity, soil type, and other factors will affect the application frequency and the amount of product necessary to properly treat the soil and achieve optimum results.

APPLICATION RATES

Irrigation injection systems

Begin with 20 ounces per acre/1.5 L per hectare. May be increased by 4 ounces per acre until adequate penetration is achieved if required

Conventional ground spraying equipment

Use the same rates and rate changes as above. Use at least 60 gallons of water per acre to dilute before applying

Apply OptiWet NJECT once every four weeks just before and when plants are growing. Applications that are more frequent may be necessary if adverse conditions such as extremely saline or extremely water resistant soils are present.

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. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrcycle.org. 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.

MATERIAL SAFETY DATA SHEET

OPTIWET INJECT

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS DATE: 12/19/12 SUPERSEDES: none

PRODUCT NAME:

DISTRIBUTOR: ADDRESS:

CHEMTREC PHONE:

CHEMICAL NAME: CHEMICAL FAMILY: CHEMICAL FORMULA:

OPTIWET INJECT

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

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

Proprietary mixture
Soil Wetter/Flush Agent Mixture

PRODUCT USE:

SECTION 1 NOTES:

SECTION 2: HAZARDOUS INGREDIENTS

Soil Wetter/Flush Agent 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

ACGIH

TWA STEL Ceiling

1 ppm

INGREDIENT CAS NO. % WT/% VOL

SARA 313 REPORTABLE No

TWA

1 ppm

5ppm/15min

POTENTIAL HEALTH EFFECTS

EYES: Eye contact with product may cause burns and irritation. Avoid eye contact with product at all times.

SKIN: Effects of skin contact may include burns and irritation. Avoid prolonged and unnecessary skin contact with product.

INGESTION: May cause burning pain in mouth, throat and abdomen and coughing and constriction of the throat, followed by nausea, vomiting, and diarrhea. Do not taste or swallow product.

INHALATION: Not expected to be an inhalation hazard, but may cause irritation to some individuals. **ACUTE HEALTH HAZARDS:** None known beyond above

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:** No

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MATERIAL SAFETY DATA SHEET MSDS DATE: 12/19/12

OPTIWET INJECT 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: 2 FLAMMABILITY: 1 REACTIVITY: - OTHER: -

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical or foam **SPECIAL FIRE**

FIGHTING PROCEDURES: Wear standard turn-out gear

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: Contain using absorbent material. Dispose of according to all applicable laws and regulations. **SECTION 6 NOTES:** None

SECTION 7: HANDLING AND STORAGE

STORAGE CONDITIONS: Store this product in a cool, dry, well-ventilated area away from direct sources of heat, sparks, ignition, and flames. Do not store near strong oxidizing materials, acids, chlorine, bromine, and hypochlorite bleaches. Protect product from freezing.

OTHER PRECAUTIONS: Keep container tightly closed when handling or storing. Exercise exposure controls and always wear personal protection. See section 10. Wash thoroughly after handling.

SECTION 7 NOTES: None

F: >200 C: >93

PMCC Unknown

F: C:

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MATERIAL SAFETY DATA SHEET MSDS DATE: 12/19/12

OPTIWET INJECT 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. Then use MSHA or NIOSH approved respirator, 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

Chemical splash goggles.

Impermeable gloves, 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

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:

VISCOSITY: @

F: C:

Light-colored, clear

Mild

Liquid

Unknown [4.1@0.25%](#)

Unknown Unknown

Unknown Unknown

Unknown Unknown Unknown

Unknown ~1.0 Unknown

Unknown

None

SECTION 9 NOTES:

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MATERIAL SAFETY DATA SHEET

OPTIWET INJECT

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: 12/19/12 SUPERSEDES: none

WASTE DISPOSAL METHOD:

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

Absorb with appropriate absorbent material, then dispose of material in accordance with all appropriate 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

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MATERIAL SAFETY DATA SHEET **MSDS DATE: 12/19/12**
OPTIWET INJECT 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 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 12/19/12

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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