



## NOTICE OF LANDSCAPE APPLICATION

**Date of Application:** August 12, 2025

**Location:** Hills Park

**Reason for Application:** This is a soil moisture management product designed to help reduce water usage.

**Product Manufacturer Name:** Hydretain ES Plus

-Ingredients: 54% Humectants (sugar alcohols, polysaccharides and neutral salts of alpha-hydroxypropionic acid), 10% non-ionic surfactant and 36% inert ingredients

- Hazard Statements: May cause mild skin irritation or allergic skin reaction. Can cause eye irritation

**\*See attached label and SDS sheet**

**\*Dates are subject to change due to weather**

EXTRA STRENGTH

# Hydretain® ES Plus

## Root Zone Moisture Manager

**Hygroscopic and Humectant Technology Plus 10% Renewable Resource Non-Ionic Surfactant**



Hydretain ES Plus Root Zone Moisture Manager Composition:  
54% Humectants (sugar alcohols, polysaccharides and neutral salts of alpha-hydroxypropionic acid), 10% non-ionic surfactant and 36% inert ingredients.

**Hydretain ES** is a unique blend of humectant and hygroscopic compounds that manage root zone moisture, significantly extending periods between required waterings for turf, ornamental plants, shrubs, trees and agriculture. **Hydretain ES Plus** combines Hydretain's root zone moisture management technology with an advanced environmentally sound, renewable resource, non-ionic surfactant.

Hydretain ES Plus is biodegradable - reapply every 3 months or as needed. Water in thoroughly after application.

### Warranty:

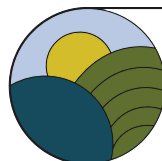
Ecologel Solutions, LLC warrants that this product conforms to the analysis on its label. When used in accordance with label directions under normal conditions, this product is reasonably fit for its intended purpose. Since time, method of application, weather, plant and soil conditions, mixture with other chemicals and other factors affecting the use of this product are beyond our control, there are no warranties or representations of any kind, express or implied, concerning this product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law. The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at the Company's sole discretion, refunding of the purchase price paid by buyer or user for the product bought, or replacement of the product used. To the extent allowed by law, Ecologel Solutions, LLC shall not be liable and any and all claims against the Company are waived for indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

**NOT A PLANT FOOD INGREDIENT**

**Net Content 2.5 gallons (9.46L)**



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**USDA  
CERTIFIED  
BIOBASED  
PRODUCT**  
PRODUCT 63%

# Hydretain® ES Plus

EXTRA STRENGTH ROOT  
ZONE MOISTURE MANAGER

**Dilution:** Hydretain ES Plus is a concentrated formula designed for large scale applications. Dilute with water before applying. Minimum dilution rate 15:1 (water to Hydretain). Hydretain ES Plus may be tank mixed or applied through injectors and fertigation systems.

## Application:

**Turf:** General application rate - Apply 9 oz. of Hydretain ES Plus per 1,000 sq. ft. (3 gallons per acre) by spray or drench once every 3 months or maintain monthly at 1/3 rate after initial full rate application. For best results apply to wet soil. Water in with at least 1/10 inch of water within the first couple of hours to insure Hydretain ES Plus is washed off foliage and into the soil. Within 24 hours, follow with enough additional water to carry Hydretain ES Plus down to and throughout the root zone. (The amount of additional water required to carry Hydretain ES Plus throughout the root zone is dependant on the depth of the root zone of the treated area.) Additional Hydretain ES Plus may be required to correct difficult and extreme dry spot areas. Hydretain may be applied at up to 5 times the general application rate as a single treatment or in multiple applications.

**Wetting Agents & Penetrants:** Hydretain ES Plus contains an excellent soil surfactant designed specifically to allow water and applied Hydretain to penetrate through thatch layers and hydrophobic soils down to and throughout the root zone.

**Overseeding, Sodding, Sprigging:** Apply Hydretain ES Plus at general application rate (9 oz. per 1,000 sq. ft.) by spray or drench after seeding, sodding or sprigging. Water in with only enough water to rinse Hydretain ES Plus off foliage and into the soil at seed level or the root area of new sod or sprig. An application of Hydretain ES Plus made prior to overseeding, sodding or sprigging and watered into the root zone will manage soil moisture for existing turf during new turf establishment.

**Trees, Shrubs & Individual Plants:** Dilute Hydretain ES Plus at a rate of 2 oz. per gallon of water and apply by drench thoroughly saturating the root zone. For maximum effectiveness on trees apply 4 to 8 ounces of concentrate for each inch of trunk diameter. Dilution rate is variable from 50:1 to 300:1.

**Potted or Containerized Plants:** Dilute Hydretain ES Plus at a rate of 2 oz. per gallon of water and apply by drench, thoroughly saturating the planting media. Media should be dry enough to hold as much diluted Hydretain as possible. Hydretain ES Plus may be applied through existing injectors at rates between 50:1 and 100:1. Higher dilution rates may require multiple applications to achieve desired results.

**Large Planters & Gardens:** Dilute Hydretain ES Plus at a rate of 2 oz. per gallon of water or through injectors at a rate of 50:1 to 100:1 and apply at a rate of 2 ounces of concentrate per 60 sq. ft of area. One gallon treats 4,000 square feet.

**For Best Results:** Water thoroughly when re-watering Hydretain ES Plus treated plants. Hydretain ES Plus is biodegradable. For maximum effectiveness reapply every three months or when required watering becomes more frequent. Reapply if a reduction in watering is not apparent within the first two weeks.

**Caution: If Hydretain ES Plus is applied to open flowers blooms, rinse with plain water to reduce the possibility of Hydretain pulling moisture from sensitive flower petals.**

Hydretain is manufactured in the United States.

# SAFETY DATA SHEET

NAME OF PRODUCT: **Hydretain ES Plus**

FILE NO.: HESP-2016Q1

Preparation Date: 01/15/2011

Revision: 02/19/2016

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODES:** HYD77 - ESP  
**PRODUCT NAME:** Hydretain ES Plus  
**SYNONYMS:** Moisture Manager, H30+

**MANUFACTURER:** Ecologel Solutions, LLC  
**ADDRESS:** 4060 SE 45<sup>th</sup> Court, Ocala, FL 34480

**EMERGENCY PHONE:** (888) 545-6307  
**CHEMTREC PHONE:** (800) 424-9300  
**OTHER CALLS:** (352) 620-2020  
**FAX PHONE:** (352) 620-0312

**PRODUCT USE:** Water Conservation Product for Horticulture/Agriculture  
**PREPARED BY:** E.F. Wilson III

## SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** This product is NOT classified as hazardous or toxic according to 29 CFR 1910(Subpart Z), amended to conform to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico); and/or the European Union "Classification, Labelling and Packaging" (CLP), Regulation (EC) 1272/2008.

**Potential hazards associated with this product are below the threshold limits for categorization as a "Hazardous Chemical" under the OSHA/GHS standards noted above. As such, this product is not required to bear a GHS compliant label.**

Health:	Environmental:	Physical:
Acute Toxicity: None Known (NK) Skin Irritation: Below Category 3 threshold Skin Corrosion: NK Eye Effects: Below Category 2(b) threshold Skin Sensitization in rare instances; NK Mutagenicity/Carcinogenicity: NK Reproductive/Dev.: NK	Acute Aquatic Toxicity: NK Chronic Aquatic Toxicity: NK	No Physical Hazards Present

Hazard Statements:	Precautionary Statements:
H316: Causes mild skin irritation H317: May cause an allergic skin reaction H320: Causes eye irritation	P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P103: Read label before use P262: Do not get in eyes, on skin, or on clothing P280: Wear protective gloves/protective clothing/eye protection/face protection P281: Use personal protective equipment as required P353: Rinse skin with water/shower

## SECTION 2 NOTES:

SEMI OPAQUE BROWN LIQUID. NO KNOWN TOXIC EFFECTS ASSOCIATED WITH PRODUCT.

SKIN ABSORPTION IS THE PRIMARY ROUTE OF ENTRY. PROLONGED CONTACT MAY PRODUCE IRRITATION AND ITCHING. SOME PERSONS MAY HAVE ALLERGIC REACTIONS IF SENSITIVE TO PLANT EXTRACTS; NO KNOWN INSTANCES. THIS PRODUCT CONTAINS A HUMECTANT AND IS ONLY SLIGHTLY IRRITATING TO THE EYES. MAY CAUSE SOME IRRITATION, REDDENING, AND/OR TEARING.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### INGREDIENTS:

A PROPRIETARY BLEND OF HUMECTANTS AND HYGROSCOPIC COMPOUNDS\*:

SUGAR ALCOHOLS, POLYSACCHARIDES, NEUTRAL SALTS OF ALPHA-HYDROXYPROPRIONIC ACID = 54%  
NON-IONIC SURFACTANT = 10%

\*AS PER 29 CFR §1910.1200, THE SPECIFIC CHEMICAL IDENTITY AND/OR EXACT PERCENTAGE (CONCENTRATION) OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

SARA 313 REPORTABLE - \*\*\*NO TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND 40 CFR 372 ARE PRESENT.\*\*\*

### SECTION 2 NOTES:

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## SECTION 4: FIRST AID MEASURES

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**IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

**IF ON SKIN (OR HAIR):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: seek medical attention.

**IF SWALLOWED:** For small quantities give large amounts of water or milk; induce vomiting. If large amounts are ingested, seek medical attention.

Note to Medical Response Personnel: Lavage is indicated for ingestion.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** NOT APPLICABLE, MIXTURE CONTAINS NO COMBUSTIBLE GASSES  
(% BY VOLUME)      **LOWER:** NOT APPLICABLE, MIXTURE CONTAINS NO COMBUSTIBLE GASSES

### **FLASH POINT:**

**F:** APPROACHING 248F SAMPLE BEGINS TO BOIL BUT NO FLASH IS OBSERVED

**C:** APPROACHING 120C SAMPLE BEGINS TO BOIL BUT NO FLASH IS OBSERVED

**METHOD USED:** ASTM D3828-05

**AUTOIGNITION TEMPERATURE:** NOT APPLICABLE, MIXTURE WILL NOT AUTOIGNITE

### **NFPA HAZARD CLASSIFICATION**

**HEALTH:** NONE

**FLAMMABILITY:** NONE

**REACTIVITY:** NONE

**OTHER:** NONE

### **HMIS HAZARD CLASSIFICATION**

**HEALTH:** NONE

**FLAMMABILITY:** NONE

**REACTIVITY:** NONE

**PROTECTION:** NONE

**EXTINGUISHING MEDIA:** FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

**SPECIAL FIRE FIGHTING PROCEDURES:** LIQUID MATERIAL DOES NOT BURN. DRY MATERIAL MAY BURN. THERE ARE NO SPECIAL FIREFIGHTING PROCEDURES. COOL SEALED CONTAINERS TO REDUCE RISK OF RUPTURE DUE TO EXCESSIVE HEAT.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE

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HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** THIS MATERIAL WILL BE SLIPPERY ON HARD SURFACES. IMPOUND WITH ABSORBENT MATERIALS OR SAND AND COLLECT FOR DISPOSAL, OR DILUTE WITH 10 TO 20 VOLUMES OF WATER AND RECOVER AS USABLE MATERIAL.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** USE CAUTION WHEN OPENING SEALED CONTAINERS. STORE IN COOL SHADED AREA. DO NOT FREEZE. RINSE AND DRY CONTAINERS THOROUGHLY BEFORE RECYCLING OR DISPOSING.

**OTHER PRECAUTIONS:** THIS PRODUCT IS FOR AGRICULTURAL AND HORTICULTURAL USE ONLY AND IS NOT INTENDED FOR OTHER APPLICATIONS. USE NORMAL SAFE HANDLING PROCEDURES AS WITH ALL CHEMICALS. SEE LABEL FOR APPLICATION INSTRUCTIONS AND DIRECTIONS FOR USE.

**SECTION 7 NOTES:** THIS MATERIAL IS BIODEGRADABLE AND NOT CONSIDERED HAZARDOUS. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. REGULATIONS MAY VARY DEPENDING ON JURISDICTION.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** NONE

**VENTILATION :** NOT NORMALLY NEEDED

**RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED DUE TO NO TLV ASSOCIATED WITH THIS PRODUCT. USE A NUISANCE CHEMICAL OR DUST MASK IF WORKING IN SPRAY MIST.

**EYE PROTECTION:** SPLASH PROOF GOOGLES ARE RECOMMENDED WHILE POURING AND HANDLING TO PREVENT EYE CONTACT FROM SPLASH.

**SKIN PROTECTION:** RUBBER GLOVES ARE RECOMMENDED FOR NORMAL CLEANLINESS.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** PLASTIC OR RUBBERIZED CLOTHING AND PROTECTIVE ANTI-SKID BOOTS SHOULD BE WORN FOR GOOD SAFE HYGENIC PRACTICES.

**WORK HYGIENIC PRACTICES:** WASH HANDS BEFORE EATING, SMOKING, OR USING RESTROOM.

**EXPOSURE GUIDELINES:** THIS PRODUCT DOES NOT EMIT ANY FORM OF ENERGY, RADIANT OR OTHERWISE.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** DARK BROWN, SEMI OPAQUE, VISCOUS LIQUID

**ODOR:** SOMEWHAT SWEET, EARTHY

**PHYSICAL STATE:** LIQUID

**pH AS SUPPLIED:** 4.5 TO 6.5

**BOILING POINT:**

F: 240 DEGREES F

C: 115.5

**MELTING POINT:**

**FREEZING POINT:**

F: LESS THAN 10 DEGREES F

C: LESS THAN -12.2 C

**VAPOR PRESSURE (mmHg):** Unknown

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VAPOR DENSITY (AIR = 1): GREATER THAN 1

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.2 @ F: 74

EVAPORATION RATE: SLOWER THAN ETHER

BASIS (=1):

SOLUBILITY IN WATER: INFINITE

PERCENT SOLIDS BY WEIGHT: 0%

PERCENT VOLATILE: NO VOLATILITY PRESENT

VOLATILE ORGANIC COMPOUNDS (VOC): NONE

MOLECULAR WEIGHT: NO DATA PRESENT

VISCOSITY: NO DATA PRESENT

SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): EXCESSIVE HEAT

INCOMPATIBILITY (MATERIAL TO AVOID): STRONG OXIDISERS SUCH AS DRY BLEACH

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID (POLYMERIZATION): NOT APPLICABLE

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: THIS PRODUCT IS MANUFACTURED FROM NON-TOXIC INGREDIENTS. NO KNOWN TOXIC EFFECTS BEYOND THAT HEREIN STATED (REVERSIBLE SKIN IRRITATION, ETC.).

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: THIS PRODUCT BIODEGRADES IN APPROXIMATELY 90 DAYS, DEPENDING ON MICROBIAL CONTENT OF SOIL. NO KNOWN POTENTIAL FOR BIOACCUMULATION OR ECOTOXICITY.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: FOLLOW MANUFACTURER DIRECTIONS FOR PRODUCT APPLICATION.

RCRA HAZARD CLASS: NOT APPLICABLE

# SAFETY DATA SHEET

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENT:

### WATER TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENTS:

### AIR TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): NOT APPLICABLE

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): NOT APPLICABLE

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): NOT APPLICABLE

311/312 HAZARD CATEGORIES: NOT APPLICABLE

313 REPORTABLE INGREDIENTS: NOT APPLICABLE

STATE REGULATIONS: SOME U.S. STATES REQUIRE PRODUCT REGISTRATION

INTERNATIONAL REGULATIONS: CONSULT LAWS OF APPLICABLE JURISDICTION

SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION:

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