NAME OF PRODUCT:

Hydretain Root Zone Moisture Manager

FILE NO.: HRETAIL-2017Q4 Preparation Date: 01/15/2011

Revision: 11/06/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODES: HYD77 - ESP

PRODUCT NAME: Hydretain Root Zone Moisture Manager SYNONYMS: Hydretain ES Plus, Moisture Manager, H30+

MANUFACTURER: Ecologel Solutions, LLC ADDRESS: 4060 SE 45th 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: H316: Causes mild skin irritation H317: May cause an allergic skin reaction H320: Causes eye irritation 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 ABSORBTION 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

INGREDIENTS:

A PROPRIETARY BLEND OF HUMECTANTS AND HYGROSCOPIC COMPOUNDS*:

SUGAR ALCOHOLS, POLYSACCHARIDES, NEUTRAL SALTS OF APLHA-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:

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE-FIGHTING MEASURES

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

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.

SECTION 7: HANDLING AND STORAGE

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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 (H2O = 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:

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: FOLLOW MANUFACTURER DIRECTIONS FOR PRODUCT APPLICATION.

RCRA HAZARD CLASS: NOT APPLICABLE

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Hydretain Root Zone Moisture Manager

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

ID NUMBER: NOT APPLICABLE

PACKING GROUP: LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Hydretain Root Zone Moisture Manager

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

ID NUMBER: NOT APPLICABLE

PACKING GROUP: LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: Hydretain Root Zone Moisture Manager

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

ID NUMBER: NOT APPLICABLE

PACKING GROUP: LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

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:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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