

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: Hydretain ES Plus

FILE NO.: H-2013Q1

MSDS DATE: 06/25/2013

Material Safety Data Sheet – ANSI Format

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydretain ES Plus
SYNONYMS:
PRODUCT CODES: HYD77 - ESP

MANUFACTURER: Ecologel Solutions, LLC
DIVISION:
ADDRESS: 4060 SE 45th Court, Ocala, FL 34480

EMERGENCY PHONE: (352) 620-2020
CHEMTREC PHONE: N/A
OTHER CALLS: (352) 620-2020
FAX PHONE: (352) 620-0312

PRODUCT USE: Agriculture/ Water Conservation
PREPARED BY: Richard Irwin

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

A PROPRIETARY BLEND OF HUMECTANTS AND HYGROSCOPIC COMPOUNDS.

NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT.

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 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: SEMI OPAQUE BROWN LIQUID. THIS PRODUCT IS A HUMECTANT AND IS ONLY MILDLY IRRITATING TO SKIN AND EYES. NO KNOWN TOXIC EFFECTS ASSOCIATED WITH PRODUCT.

ROUTES OF ENTRY: 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.

POTENTIAL HEALTH EFFECTS

EYES: THIS PRODUCT IS A HUMECTANT AND IS ONLY SLIGHTLY IRRITATING TO THE EYES. MAY CAUSE SOME IRRITATION, REDDENING, AND/OR TEARING.

SKIN: NO SPECIFIC INFORMATION AVAILABLE. THIS PRODUCT CONTAINS MATERIALS THAT MAY CAUSE SKIN IRRITATION.

INGESTION: THIS PRODUCT IS NON-TOXIC UNDER TYPICAL INGESTION CONDITIONS (LESS THAN 2 OZ.). LARGER QUANTITIES WILL HAVE A LAXATIVE EFFECT ON SOME PERSONS.

INHALATION: THERE ARE NO KNOWN TOXIC EFFECTS ASSOCIATED WITH THIS PRODUCT.

ACUTE HEALTH HAZARDS: THERE ARE NO KNOWN ACUTE HEALTH HAZARDS ASSOCIATED WITH THIS PRODUCT.

CHRONIC HEALTH HAZARDS: THERE ARE NO KNOWN CHRONIC HEALTH HAZARDS ASSOCIATED WITH THIS PRODUCT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: SKIN ALLERGIES MAY BE AGGRAVATED BY EXPOSURE TO CONCENTRATED FORM OF PRODUCT.

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CARCINOGENICITY

OSHA: NONE

ACGIH: NONE

NTP: NONE

IARC: NONE

OTHER: THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS

SECTION 3 NOTES: ALL HYDRETAIN PRODUCTS ARE CONSIDERED AS NON-HAZARDOUS FOR AIR FREIGHT SHIPMENT.

ALL HYDRETAIN PRODUCTS ARE CONSIDERED AS NON-HAZARDOUS FOR TRANSPORT VIA SEAGOING CARGO VESSEL.

ALL HYDRETAIN PRODUCTS ARE CONSIDERED AS NON-HAZARDOUS FOR U.S. DOT PURPOSES WHEN TRANSPORTED BY LAND TRANSPORT METHODS.

SECTION 4: FIRST AID MEASURES

EYES: DO NOT RUB EYES, RINSE WITH LARGE AMOUNTS OF PLAIN WATER. REMOVE CONTACT LENSES. IF EYES REMAIN IRRITATED SEEK MEDICAL ATTENTION.

SKIN: RINSE WITH WATER AND APPLY TOPICAL CREAM IF IRRITATED. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

INGESTION: FOR SMALL QUANTITIES GIVE LARGE AMOUNTS OF WATER OR MILK; INDUCE VOMITING. IF LARGE AMOUNTS ARE INGESTED, SEEK MEDICAL ATTENTION. NOTE: LAVAGE IS INDICATED.

INHALATION: IF VICTIM IS UNCONSCIOUS, REMOVE TO FRESH AIR; IF NOT BREATHING ADMINISTER CPR OR GET MEDICAL TREATMENT.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

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

F:

C:

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 5 NOTES:

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 6 NOTES:

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 8 NOTES:

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

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pH (Other):

BOILING POINT:

F: 240 DEGREES F

C:

MELTING POINT:

F:

C:

FREEZING POINT:

F: LESS THAN 10 DEGREES F

C:

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1): GREATER THAN 1

@

F:

C:

SPECIFIC GRAVITY (H2O = 1): 1.2

@

F: 74

C:

EVAPORATION RATE: SLOWER THAN ETHER

BASIS (=1):

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: INFINITE

PERCENT SOLIDS BY WEIGHT: 0%

PERCENT VOLATILE: NO VOLATILITY PRESENT
BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): NONE

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

MOLECULAR WEIGHT: NO DATA PRESENT

VISCOSITY: NO DATA PRESENT

@

F:

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

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

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HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

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CONDITIONS TO AVOID (POLYMERIZATION): NOT APPLICABLE

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: THIS PRODUCT IS MANUFACTURED FROM NON-TOXIC INGREDIENTS.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NO DATA AVAILABLE

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: FOLLOW MANUFACTURER DIRECTIONS FOR PRODUCT APPLICATION.

RCRA HAZARD CLASS: NOT APPLICABLE

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

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:

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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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