

SAFETY DATA SHEET

FILE NO.: MM-2015Q2
Preparation Date: 01/15/2011
Revision: 05/26/2015

NAME OF PRODUCT: **Hydretain ES Plus Granular QD**

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

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

EMERGENCY PHONE: (888) 545-6307
CHEMTREC PHONE: N/A
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).

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 (in rare instances) H317: May cause an allergic skin reaction (may be possible in rare instances, no known instances) H320: Causes eye irritation (immediately reversible by flushing eyes in most instances; SEE SECTION 4) H335: May cause respiratory irritation* (SEE BELOW) Abrading this product may produce combustible dust** *Dust released by this product is anticipated to be below the Category 5 threshold of GHS standard 3.2.1 (Acute Toxicity – Dust and Mist), and corresponding categorization of Table 3.8. **The combustible nature of this product is below the threshold for categorization under GHS 3.1.7 (Flammable Solids). | 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 |

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SECTION 2 NOTES:

GREY TO LIGHT-BROWN COLORED FINE GRANULAR MATERIAL.

NO KNOWN TOXIC EFFECTS ASSOCIATED WITH PRODUCT. THIS PRODUCT MAY BE ABRADED IN WAYS THAT PRODUCE WOOD FIBER DUST AND GRANITE DUST. INHALATION PRECAUTIONS NOTED.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

ACTIVE 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.***

Inert Ingredients:

BASE MATERIAL IS COMPRISED OF WOOD FIBER (CAS#65996-61-4, Total Wt. 8%-30%), GRANITE (CAS# N/A, Total Wt. 38%-64%) AND/OR OTHER MINERAL MATERIALS, TO INCLUDE GYPSUM (CAS# 13397-24-5), CALCIUM CARBONATE (CAS# 1317-64-3) AND/OR QUARTZ (CAS# 14808-60-7), AND ORGANIC BINDER (CAS#9004-53-9, Total Wt. 1%-8%).

SECTION 2 NOTES:

CERTAIN WOOD FIBERS AND GRANITE DUST ARE CONSIDERED HAZARDOUS IF THE AIRBORNE CONCENTRATION EXCEEDS THE OSHA OR ACGIH EXPOSURE LIMITS FOR LONG PERIODS OF TIME. EXPOSURE TO SUCH DUST LEVELS IS UNLIKELY WITH THIS PRODUCT.

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.

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: UNKNOWN
(% BY VOLUME) LOWER: UNKNOWN

FLASH POINT:

F: GREATER THAN 400°F

C: GREATER THAN 204°C

METHOD USED: ASTM D3828-05

AUTOIGNITION TEMPERATURE: ESTIMATED TO BE GREATER THAN 400°F/204°C

NEPA HAZARD CLASSIFICATION

HEALTH: NONE

FLAMMABILITY: 1

REACTIVITY: NONE

OTHER: NONE

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

SPECIAL FIRE FIGHTING PROCEDURES: DENSE SMOKE EMITTED WHEN BURNED WITHOUT SUFFICIENT OXYGEN. POSSIBLE DUST EXPLOSION IF FINES ACCUMULATE (NOT REASONABLY ANTICIPATED). WEAR STANDARD FIRE FIGHTING ATTIRE AS FOR FIGHTING A WOOD-BASED FUEL SOURCE, INCLUDING SCBA GEAR IN ENCLOSED AREAS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: MATERIAL SHOULD BE SWEEPED UP AND DISCARDED, OR IF NOT CONTAMINATED WITH FOREIGN DEBRIS MAY BE REUSED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF FINE DUST IS PRESENT IN MATERIAL AND SWEEPING IS NECESSARY, USE A DUST SUPPRESSANT.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: USE PROTECTIVE EQUIPMENT AS PRESCRIBED HEREIN WHEN HANDLING UNCONTAINED MATERIAL. MATERIAL SHOULD BE KEPT DRY AND PROTECTED FROM THE ELEMENTS. THIS MATERIAL CONTAINS HYGROSCOPIC MATERIALS AND EXPOSURE TO MOISTURE, INCLUDING EXCESSIVE HUMIDITY, MAY CAUSE CLUMPING AND SOLIDIFICATION OF MATERIAL INSIDE PACKAGING.

OTHER PRECAUTIONS: 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:

WOOD FIBERS – OSHA TWA 5mg/m3
OSHA PEL 15mg/m3 (total), 5mg/m3 (respiratory)

GRANITE – OSHA PEL 10mg/m3 (total), 5mg/m3 (respiratory)
MSHA – PROPOSED/OSHA PROPOSED PEL= 0.1mg/m3

VENTILATION : USE IN A WELL VENTILATED AREA.

RESPIRATORY PROTECTION: AN APPROVED RESPIRATOR MAY BE NEEDED IN AREAS WITH A HIGH ACCUMULATION OF FINES (UNLIKELY GIVEN ORDINARY STORAGE AND APPLICATION METHODS).

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EYE PROTECTION: SAFETY GOGGLES WITH SIDE SHIELDS ARE RECOMMENDED WHEN HANDLING UNCONTAINED MATERIAL TO KEEP DUST OUT OF EYES.

SKIN PROTECTION: RUBBER GLOVES ARE RECOMMENDED WHEN HANDLING UNCONTAINED MATERIAL.

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: GREY TO LIGHT BROWN GRANULAR MATERIAL

ODOR: SOMEWHAT SWEET, EARTHY ORGANIC ODOR

PHYSICAL STATE: SOLID GRANULAR

pH AS SUPPLIED: 6 - 8

BOILING POINT:

F: NOT APPLICABLE

C: NOT APPLICABLE

MELTING POINT: NOT APPLICABLE

FREEZING POINT: NOT APPLICABLE

VAPOR PRESSURE (mmHg): NOT APPLICABLE

VAPOR DENSITY (AIR = 1): UNKNOWN

SPECIFIC GRAVITY (H₂O = 1): ACTIVE INGREDIENT WHEN RELEASED FROM GRANULE: 1.2 @ F: 74

EVAPORATION RATE: NOT APPLICABLE

BASIS (=1):

SOLUBILITY IN WATER: WATER WILL DISSOLVE GRANULE AND RELEASE ACTIVE INGREDIENTS

PERCENT SOLIDS BY WEIGHT: 0%

PERCENT VOLATILE: NEGLIGIBLE

VOLATILE ORGANIC COMPOUNDS (VOC): NONE

MOLECULAR WEIGHT: NO DATA PRESENT

VISCOSITY: NO DATA PRESENT

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

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STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): EXCESSIVE HEAT, FLAME

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

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

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: THE ACTIVE INGREDIENTS OF THIS PRODUCT BIODEGRADE IN APPROXIMATELY 90 DAYS, DEPENDING ON MICROBIAL CONTENT OF SOIL. NO KNOWN POTENTIAL FOR BIOACCUMULATION OR ECOTOXICITY. BASE MATERIAL CONTAINS MINERAL DUST WHICH IS A NATURALLY OCCURRING MATERIAL WHICH WILL NOT BIODEGRADE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: FOLLOW MANUFACTURER DIRECTIONS FOR PRODUCT APPLICATION.

RCRA HAZARD CLASS: NOT APPLICABLE

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN ES PLUS GRANULAR QD
HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL
ID NUMBER: NOT APPLICABLE
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN ES PLUS GRANULAR QD
HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL
ID NUMBER: NOT APPLICABLE
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: HYDRETAIN ES PLUS GRANULAR QD
HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL
ID NUMBER: NOT APPLICABLE
PACKING GROUP:
LABEL STATEMENTS:

SECTION 14 NOTES:

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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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