SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Identifier: Hydroseeding mulch

Product Name: Hydro Green®

Manufacturer: Nu-Wool Co., Inc.
2472 Port Sheldon St.
Jenison, MI 49428

Emergency Phone: (800) 748-0128

Hydro Green® is a Registered Trademark of Nu-Wool Co., Inc.

SECTION 2 – HAZARDS IDENTIFICATION

No classification under OSHA HCS/HazCom 2012 Final Rule.

Other hazards which do not result in classification: None

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>% By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose fiber</td>
<td>65996-61-4</td>
<td>99.5</td>
</tr>
</tbody>
</table>

Other ingredients are present in the final product at less than cutoff values and do not pose a health hazard.

SECTION 4 – FIRST AID MEASURES

Eyes: Use eye wash fountain or fresh water to cleanse the eye. If irritation persists for more than 30 minutes, seek medical attention.

Skin: Wash affected area with soap and water.

Ingestion: If swallowed, give two glasses of water to drink and seek medical attention.

Inhalation: No special treatment is necessary since Hydro Green® hydroseeding mulch is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.

Notes to physicians or first aid providers: None.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing media: Water

Special fire-fighting procedures: None

Unusual fire and explosion hazards: None

National Fire Protection Association (NFPA) Classification:
Health – 0
Flammability – 1
Reactivity – 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

General: Hydro Green® hydroseeding mulch is biodegradable and will not cause damage to trees or vegetation by root absorption.

Land spill: Vacuum, shovel, or sweep Hydro Green® hydroseeding mulch and place containers for disposal in accordance with applicable state and local regulations. No personal protective equipment is needed to clean up land spills.

Water spill: Hydro Green® hydroseeding mulch will not cause localized contamination of surrounding waters. There is no known damage at high concentrations to local vegetation, fish, or other aquatic life. This product’s inherent design is to be used with other compatible revegetation products.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: No special handling precautions are required. To maintain package integrity, bags should be handled on a “first-in, first-out” basis.

Conditions for safe storage, including incompatibilities: Dry, indoor storage is recommended.

Storage temperature: Ambient

Storage pressure: Atmospheric

Special sensitivity: None known

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL-TWA: 15 mg/m³ total dust; 5 mg/m³ respirable dust

ACGIH TLV-TWA-OEL: 5 mg/m³ respirable dust

Cal OSHA PEL-TWA: 5 mg/m³

Engineering controls and ventilation: Use local exhaust ventilation to keep airborne concentrations of Hydro Green® hydroseeding mulch dust below permissible exposure levels.

Respiratory protection: When airborne concentrations are expected to exceed exposure limits, NIOSH/MSHA certified respirators (e.g., N95) must be used.

Eye protection: Eye goggles are not required for normal industrial exposures, but may be warranted if environment is excessively dusty.

Skin protection: Gloves are not required for normal industrial exposures, but may be warranted if environment is excessively dusty.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green, fiber

Odor: Not applicable

Odor threshold: Not applicable

pH as supplied: 7.3
Melting point / freezing point: Not applicable
Boiling point / boiling range: Not established
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability / flammability range: Not applicable
Explosive limits: Not applicable
Vapor pressure: Not applicable
Vapor density: Negligible at 20°C
Relative density: Not applicable
Solubility in water: Insoluble
Specific gravity: Not applicable
Partition coefficient: Not applicable
Auto-ignition temperature: Not applicable, not self-heating
Decomposition temperature: Not applicable
Viscosity: Not applicable
Explosive properties: Not explosive, does not contain chemical groups associated with explosivity
Oxidizing properties: Not oxidizing, does not contain chemical groups associated with oxidation

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Non-reactive
Stability: Hydro Green® hydroseeding mulch is a stable product.
Possibility of hazardous reactions: Non-reactive
Conditions to avoid: None
Incompatible materials: None
Hazardous decomposition or by-products: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern as cellulose compounds are not absorbed through intact skin. Hydro Green® hydroseeding mulch is not intended for ingestion.

Symptoms related to the physical, chemical, and toxicological characteristics: Symptoms of cellulose exposure include runny nose, sneezing, and coughing.
Delayed and immediate effects as well as chronic effects from short and long-term exposure: No chronic or reproductive effects from cellulose have been reported in the literature.

Acute toxicity:

Cellulose:
- Oral LD$_{50}$ (rat): >5,000 mg/kg of body weight
- Dermal LD$_{50}$ (rabbit): >2,000 mg/kg of body weight
- Inhalation LC$_{50}$ (rat): >5.8 mg/L
- Dermal irritation/corrosivity: Nonirritating, nonsensitizing.
- Eye irritation: No information found.

Chronic health hazards: No chronic effects from cellulose fiber has been reported in the literature.

Reproductive effects: No reproductive effects from cellulose found in the literature. Hydro Green® contains C.I. Basic Green 4 which is a suspected reproductive toxicant (Category 2) but is present at less than 0.1% by weight in the final product.

Carcinogenicity: Cellulose fiber and other ingredients are not listed as known or suspected carcinogens by OSHA, ACGIH, NTP, or IARC.

SECTION 12 – ECOLOGICAL INFORMATION

Cellulose fiber: No information found.

C.I. Basic Green 4:
- Acute/prolonged toxicity to fish: LC$_{50}$ (Leuciscus idus) (96-hr): 1.87 mg/L (ATE)
- Acute/prolonged toxicity to aquatic invertebrates: EC$_{50}$ (Daphnia magna) (48-hr): 6.0 mg/L (ATE)

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method: Small quantities of Hydro Green® hydroseeding mulch can usually be disposed of at Municipal Landfill sites. No specific disposal treatment is required, but refer to state and local regulations for site-specific requirements. Tonnage quantities of this product should not be landfilled. Such product should, if possible, be re-used for an appropriate application.

RCRA Hazard Class: This product is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA).

California Hazardous Waste Designation: California identifies substances with acute LD$_{50}$s less than 5000 mg/kg as “hazardous wastes.” Hydrogreen™ mulch is therefore not a “hazardous waste” if spilled in California. Refer to Regulatory Information for additional information.

SECTION 14 – TRANSPORT INFORMATION

US Department of Transportation: Hydro Green® hydroseeding mulch is not a U.S. Department of Transportation (DOT) Hazardous Material or DOT Hazardous Substance.

Other agencies: Hydro Green® hydroseeding mulch has no U.N. Number, and is not regulated under international rail, highway, or air transportation regulations.

Section 15- REGULATORY INFORMATION

TSCA NO.: Hydro Green® hydroseeding mulch does not appear on the EPA TSCA inventory list.
RCRA: Hydro Green® hydroseeding mulch is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act or regulations (40 CFR 261 et seq.).

SUPERFUND: CERCLA/SARA. Hydro Green® hydroseeding mulch is not listed under CERCLA (the Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA, (the Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65; Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355; or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

SAFE DRINKING WATER ACT: Hydro Green® hydroseeding mulch is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq.
Clean Water Act (Federal Water Pollution Control Act): 33 USC 1251 et seq.
   a.) Hydro Green® hydroseeding mulch is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33USC 1314
   b.) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129
   c.) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

OSHA/CAL OSHA: This SDS document meets the requirements of both OSHA (29 CFR 1910.1200) and Cal OSHA (Title 8 CCR 5194(g)) hazard communication standards. Refer to Exposure Control/Personal Protection for regulatory exposure limits.

SECTION 16 – OTHER INFORMATION

Other information: This SDS was finalized on June 1, 2015 and is compliant with OSHA HCS/HazCom 2012 Final Rule. This replaces the previous version dated February, 2007.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. Therefore, no warranty either express or implied of merchantability or fitness for particular purpose is made with respect to the product or the information contained herein.