



Guaranteed by Element C6, 2750 East Spring Street, Suite 170. Long Beach, California, 90806. (714) 495-6648

COMPLETE FORMULA OF MATERIAL

Turf Rescue is soil amendment which reduces water use, reduces evaporation, retains water, improves permeability, and reduces soil density in turf grass applications.

DIRECTIONS FOR USE

DO NOT PLANT DIRECTLY INTO TURF RESCUE. TURF RESCUE SHOULD BE BLENDED THOROUGHLY WITH SOIL AND/OR INCORPORATED INTO THE SOIL

For Established Turf:

Thoroughly aerate with at least 9 holes per square foot using a 5/8-inch drill to a depth of three inches (12 holes per square meter using a 3-centimeter drill to a depth of 8 centimeters). Apply the product as a top dressing at a rate of 4 to 24 cubic yards per acre (8 to 48 cubic meters per hectare). Drag a carpet over the application area to push material into aeration holes. Irrigate for five minutes to further work product into the holes. The turf is ready to be used after watering.

Reduce irrigation quantities in 30 days starting with a 10% reduction. Increment reduction by 5% every week. Maintain soil volumetric water content above 30% for quality. We recommend using Coaxial Impedance Dielectric Reflectometry technology to monitor soil volumetric water content. At least 20 soil moisture measurements per acre (50 measurements per hectare) should be taken, and averaged to quantify moisture level, measured at the same time each day after the turf has dried out.

LIST OF INGREDIENTS

INGREDIENTS: COMPOST and WOOD CHIP BIOCHAR

The Compost in Turf Rescue is made entirely from recycled green material – which is limited to: yard trimmings, agricultural wastes and untreated wood wastes. The compost does not contain sewage sludge, mixed solid waste, material processed from commingled collection, wood containing lead-based paint or wood preservatives, mixed demolition or mixed construction debris. This product does not contain any mammalian flesh, unprocessed hide, blood and marrow, or manure. Compost is the major component.

The Biochar used in Turf Rescue is made entirely from wood chip materials, and is the minor component. Biochar is produced from the pyrolysis of untreated wood chips under elevated temperatures in an oxygen deficient environment. Only biochars that has an organic carbon level greater than 60 percent of total mass as measured by ASTM D5373 are used.

Compost provides organic matter to retain water, and contributes to improved soil permeability. Biochar reduces evaporation from the soil surface, retains water, and reduces soil density. By retaining water, less water is lost during irrigation events to percolation beyond the root zone, reducing overall water use. Reduced surface evaporation additionally contributes to reducing overall water use. Improving permeability mitigates surface runoff during irrigation events, further contributing to the reduction in overall water use.



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This product contains composted green material and biochar. The composted green waste is limited to: yard trimmings, agricultural wastes and untreated wood wastes. Biochar is produced from untreated wood materials.

The compost is manufactured from plant material that is separated at the point of generation, contains no greater than 0.5% of physical contaminants by weight, contains no glass or other physical contaminant of a size and shape that can cause injury to humans, and contains no mammalian flesh, organs, unprocessed hide, blood, bone and marrow, or bio-solids.

The biochar is manufactured it from unprocessed wood, or wood residues such as saw dust, yard trimmings, or agricultural wastes separated at the point of generation, containing no greater than 0.5% of physical contaminants by weight, contains no glass or other physical contaminant of a size and shape that can cause injury to humans, and contains no mammalian flesh, organs, unprocessed hide, blood, bone and marrow or bio-solids.

DESCRIPTION OF MANUFACTURING PROCESS

Suppliers of compost include green waste composters. Suppliers of biochar include charcoal producers, biomass waste to energy facilities, and biomass pyrolysis operators.

The biochar is blended into the green material compost pile after the thermophilic stage is complete (US Patent Application #62/360,240). The finished compost and biochar blend shall be screened to generate the appropriate consistency for Turf Rescue.

Turf Rescue shall be conveyed via loader to the bagging/storage area. On-site personnel shall conduct a final inspection of the blended material prior to conveying the material to the bagging apparatus or storage area. The bagging apparatus shall be set to convey the appropriate volume of material for each bag size.

The onsite supervisor shall monitor Turf Rescue as it is conveyed into the bag/storage area and shall confirm that each bag/cubic yard of Turf Rescue is free of contaminants. If contaminants are identified, the blended material shall be removed from the bag/storage area and re-screened prior to its re-introduction.

All Turf Rescue products shall be stored in a cool, dry place until product is picked up for distribution.

GUARANTEED ANALYSIS

Biochar Carbon Content	ASTM D5373	Greater than 60% pounds of carbon per pound of dry biochar Greater than 60% kilograms of carbon per kilogram of dry biochar
Turf Rescue Density	Gravimetric	800-1300 pounds per cubic yard (279-454 kilograms per cubic meter)