



**Safety Data Sheet
Turf Rescue**

Trade Name: Turf Rescue
Registration Name: Turf Rescue

SECTION 1 IDENTIFICATION

Manufacturer or Formulator: Element C6
2750 East Spring Street
Long Beach, CA 90806

Product Name: Turf Rescue

Emergency Phone: 1-(877) 465-3705

Common Name: Compost, Biochar
Synonyms: Decomposed grass, leaves, twigs, roots, pyrolysis of wood chips

Product Use Description: Compost & porous biochar used for turf grass and other landscaping applications.
Class: Industrial Grade

SECTION 2 HAZARD(S) IDENTIFICATION

This section identifies the hazards of the chemical presented on the SDS and the appropriate warning information associated with those hazards. When looking at the different classifications of hazards this chemical meets, you will see category numbers that tell you how severe the hazard is. These numbers ARE NOT the same as the old NFPA/HMIS system. The numbering starts at 1 (most hazardous) and ends at 5 (least hazardous). The lower the number, the more severe the hazard.

Classifications:

- Flammable Wood – Category 5
- Aspiration Hazard – Category 4
- Carcinogenicity – Category 5
- Specific Target Organ Toxicity (Repeated Exposure) – Category 5
- Specific Target Organ Toxicity (Single Exposure) – Category 5
- Skin Irritation – Category 5
- Eye Irritation – Category 5
- Chronic Aquatic Toxicity – Category 5

Pictograms:



SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This section identifies the ingredient(s) contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information consists of:

Main Ingredient: Compost & Biochar

Compost: Greater than 60 percent. Compost is comprised of decomposed grass, leaves, twigs & roots.

Biochar: Less than 40 percent. Biochar includes:

Ingredient	Percent (% WT)	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL
Biomass Carbon	>60%	10 mg/m ³	15 mg/m ³	5 mg/m ³
Wood Chip Based Ash	<5%	not listed		
Water	<40%	not listed		

SECTION 4 FIRST-AID MEASURES

This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.

Effects of Overexposure:

Exposure to compost and biochar should not present a health hazard. Excessive carbon dust from handling biochar may produce allergic responses in sensitive individuals. Overexposure of biochar dust may cause skin/eye and upper respiratory tract irritation along with allergic responses and asthma.



Medical Conditions Prone to Aggravation by Exposure:

If an allergy, such as dermatitis, asthma, or bronchitis develops, it may be necessary to remove a sensitive worker from further exposure to carbon dust.

Emergency and First Aid Procedures (wood dust only):

- **Inhalation:** Remove to fresh air. If persistent irritation, severe coughing/breathing difficulties, or rash occur, get medical advice before returning to work with biochar.
- **Eye Contact:** Flush with water to remove dust particles from the eye. If irritation persists, get medical attention.
- **Skin Contact:** If a rash, or persistent irritation or dermatitis occur, get medical advice before returning to work where biochar is present.

Use of appropriate PPE can limit contact as needed – long pants, sleeves, gloves, eye shields, p100 respirator.

SECTION 5 FIRE FIGHTING MEASURES

This section provides recommendations for fighting a fire caused by the chemical.

- Extinguishing Media:** Water Spray.
- Unusual Fire and Explosion Hazard:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. The minimum explosive concentration is 0.140 g/l.
- Fire Fighting Equipment:** Full protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operated in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:
Sweep up or vacuum spills for recovery or disposal. A dust respirator may be required during clean up.

Waste Disposal:
Dispose in accordance with federal, state and/or local regulations.

SECTION 7 HANDLING AND STORAGE

This section provides guidance on the safe handling practices and conditions for safe storage of chemicals.

The required information consists of:

- Precautions for safe handling, including recommendations for handling incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general hygiene practices (e.g. eating, drinking, and smoking in work areas is prohibited).
- Recommendations on the conditions for safe storage, including any incompatibilities. Provide advice on specific storage requirements (e.g. ventilation requirements).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

This section identifies the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.

- Respiratory Protection:** Adequate ventilation required, always wear a dust mask when handling material. Use approved dust respirator. (P100 type ¼ face).
- Eye Shields:** Eye shields.
- Protective Gloves:** Recommended to reduce skin contact.
- Other Protective Equipment:** No special clothing required unless excessive dust is associated with handling. Use body-covering work clothing.
- Ventilation:** Whenever possible, local exhaust ventilation should be used to meet TLV requirements.
- Hygienic Practices:** Follow good hygienic practices.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

This section identifies physical and chemical properties associated with the substance or mixture.

- Appearance and Odor:** Brown decomposed organic material and black particles of varying size, 0-16 mm. Minimal odor.
- Molecular Weight:** 20-50 lb. per cubic foot
- Boiling Point:** Not Applicable
- Vapor Pressure, mm Hg:** Not Applicable



Percent Volatile (by weight): Not Applicable
pH: 7.0-8.0
Solubility in Water: Insoluble

SECTION 10 STABILITY AND REACTIVITY

This section describes the reactivity hazards of the chemical and the chemical stability information. It is broken into three parts: reactivity, chemical stability, and other. The required information consists of:

Reactivity

Hazardous polymerization: Will not occur

Chemical Stability

Stability: Stable

Other

Hazardous decomposition products:

Thermal-oxidative degradation of carbon produces irritating and toxic fumes and gases, including CO, aldehydes, and organic acids.

Conditions to Avoid:

Provide ventilation sufficient to prevent exceeding recommended exposure limits.
Keep containers closed and in a cool, well-ventilated area.

SECTION 11 TOXICOLOGY INFORMATION

This section identifies toxicological and health effects information or indicates that such data are not available.

No toxicological data are available. There are no substances of toxicological significance contained in this product.

SECTION 12 ECOLOGICAL INFORMATION

This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment.

This product is not toxic.

SECTION 13 DISPOSAL CONSIDERATIONS

This section provides guidance on proper disposal practices, including the recycling or reclamation of the chemical(s) and its container, as well as, safe handling practices.

This product may be disposed of in an authorized waste management facility. Appropriate volumes may be applied into a suitably vegetated land area away from drainage zones and watercourses.

SECTION 14 TRANSPORT INFORMATION

This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea.

Data not available.

SECTION 15 REGULATORY INFORMATION

This section identifies the safety, health, and environmental regulations specific for the product that is not indicated anywhere else on the SDS.

None.

SECTION 16 OTHER INFORMATION

This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version.

SDS Version Number: Turf Rescue (1.3)

Revision Date: July 29, 2017