



# Material Safety Data Sheet (MSDS)

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## GroChar Compost

Page: Page 1 of 6

### 1. Identification

In this section we give product name which will be listed on label as well as contact information of the manufacturer

**Product Name:** GroChar Compost  
**Class:** Horticulture Grade  
**Synonyms:** Pro Mix, Garden Mix  
**MSDS Number:** N/A Version : 1.0  
**Product Use Description:** Landscaping and General Horticultural Purposes  
**Company:** Greenfield Eco Solutions Pvt. Ltd.  
**Main Telephone:** 91-291-2711895  
**Website:** www.greenfeldeco.com

**Company Address:**  
11/895 CHB  
Nandanvan  
Jodhpur 342008, India

### 2. Hazard(s) Identification

This section identifies the hazards of the chemical presented on the MSDS and the appropriate warning information associated with those hazards. When looking at the different classifications of the numbering starts at 1 (most hazardous) and ends at 5 (Least hazardous). The lower the number or letter, the more severe the hazard.

#### CLASSIFICATIONS

- Flammable – Category 5
- Aspiration Hazard – Category 5
- 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



### 3. Composition/Information on Ingredients

This section identifies the ingredient(s) contained in the product indicated on the MSDS, 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

GroChar Compost is a blend of composted natural organic materials, biochar, and bio-pesticides with addition of minerals and fertilizer additives. It contains a variety of living micro-organisms, including bacteria, fungi and protozoa.

#### PROPORTION OF INGREDIENTS

100 %. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Any concentration shown as a range is to protect confidentiality (trade secret) or due to batch variation.

### 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

Routes of Entry: INHALATION - EYE CONTACT - SKIN CONTACT - INGESTION

Carcinogenic Status: NONE

Target Organs: EYE - LUNG

Potential Health Effects – None Known

EYES: Direct contact with the dust and bio-aerosols may cause redness, irritation and eye infection.

SKIN: Prolonged skin contact with dust and bio-aerosols may result in irritation, itching and possible rash.

INGESTION: Unlikely under normal conditions. Swallowing GroChar Compost may cause abdominal discomfort, nausea, vomiting and gastrointestinal infections.

INHALATION: Inhalation of dust and bio-aerosols may irritate the upper respiratory system causing coughing and bronchitis at high levels.

Other Health Warnings: Not Applicable

#### 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.

#### EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush immediately with plenty of lukewarm water for at least 15 minutes; if irritation and redness persists seek medical attention.

SKIN: Wash skin with mild soap and plenty of water. Apply common skin moisturizers to relieve dryness. If irritation or redness develops, seek medical attention.

INGESTION: Wash out mouth with water. If large amounts are ingested, seek medical attention.

INHALATION: Remove person from exposure to fresh air. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep person warm and at rest. Treat symptomatically and supportively.

Emergency Eye Wash: When there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of air borne dust and bio-aerosols of this substance the employer should provide an eye wash fountain within the immediate work area for emergency.

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

## 5. Fire-Fighting Measures

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

**PRODUCT FLAMMABILITY:** Non-flammable, but related products are known smolder if ignited when fully dry.  
**SUITABLE EXTINGUISHING MEDIA:** Water or Class A extinguishers for fire fighting, if necessary.  
**HAZARD FOR COMBUSTION PRODUCTS:** No information available.  
**HAZCHEM CODE:** None allocated.

Protective Footwear and clothing for Fire Fighting should be worn.

## 6. Accidental Release Measures

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear full protective clothing and personal protection. Carefully and promptly clean up the spill and collect the material into suitable containers and hold for reuse/recycle or disposal in accordance with local authority guidelines. Prevent run-off into drains and waterways

### WASTE DISPOSAL

Dispose in accordance with central, state and/or local regulations

## 7. Handling and Storage

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

### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes and skin. Avoid breathing dust and/or liquid mists (bio-aerosols). Wash your hands carefully after handling this product. Wash work clothes regularly.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool, dry and well ventilated area. Keep away from food, drink and animal feeding stuffs.

## 8. Exposure Controls/Personal Protection

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

### NATIONAL EXPOSURE STANDARDS

No specific exposure standards have been allocated for GroChar Compost.

General recommended exposure standards for dust not otherwise specified are:

**Total inhalable dust:** 10 mg/m<sup>3</sup>

**Total respirable dust:** 2 mg/m<sup>3</sup>

### BIOLOGICAL LIMIT VALUE

None allocated

### ENGINEERING CONTROLS

Use in open or well ventilated areas. All work with this product should be carried out with precautions to avoid

skin and eye contact and minimize exposure to dust and bio-aerosols

#### **PERSONAL PROTECTIVE EQUIPMENT**

Wear suitable protective equipment: protective clothing, standard duty gloves and safety shoes. If exposed to product dust and/or liquid mists wear safety glasses with side shields and dust mask – respirator.

**Always wash your hands thoroughly after working with GroChar Compost**

## **9. Physical and Chemical Properties**

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

Appearance and Physical State: Brown to grayish blend of natural and organic materials; granular and soil like substance.

Color: Dark brown to grayish

Odor: Slight, Earthy

pH: 6.0-7.5

Solubility: Not soluble, but may go into slurry.

Bulk Density: Variable according to composition and moisture content, approximately 1.3 MT/m<sup>3</sup>

Flammability: Not flammable

Explosive Properties: Non explosive

## **10. Stability and Reactivity**

This section describes the reactivity hazards of the chemical and the chemical stability information.

Stability: Stable under normal conditions of storage and use. GroChar Compost contains no chemical substances that could cause instability. Keep away from excessive heat, sparks and open flames.

Incompatibility: None.

Decomposition/By Products: None known. May generate oxides of nitrogen during fire conditions.

Hazardous Polymerization: Should not occur under normal temperatures and pressures.

#### **CONDITIONS TO AVOID**

Provide ventilation sufficient to prevent exceeding recommended exposure limits.

Keep containers closed and in a cool, well-ventilated area.

## **11. Toxicological Information**

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

#### **HEALTH EFFECTS**

##### **Acute health effects:**

**GroChar Compost dust and liquid mist (bio-aerosols) are recognized to be a potential health hazard.**

This material contains a variety of living organisms, including bacteria, fungi and protozoa. People should handle it with special care including use of all recommended protective equipment.

##### **Chronic health effects:**

Direct contact and repeated inhalation of dust and/or liquid mists (bio-aerosols) from this products may cause skin irritation or infection, respiratory irritation, inflammation or sensitization of the nose, throat and lungs resulting in illness ranging from hay fever, asthma, bronchitis to pneumonia or other pneumonia-like illnesses (e.g.

**Legionnaire's disease**). Children, pregnant women, the elderly, people with pre-existing conditions or the immuno-

compromised people may be at a particular risk from these illnesses if exposed to this product. All people working with this and other horticultural and landscaping products should safeguard themselves from tetanus.

**Inhalation:**

Inhalation of any amount of dust/bio-aerosols from this product may have an immediate or delayed effect to irritate, inflame or sensitize the nose, throat and lungs, and exacerbate pre-existing conditions such as asthma and bronchitis.

**Skin:**

Any level of skin contact with this product and/or its dust/bio-aerosols may lead to immediate or delayed skin irritation, and in susceptible people may cause skin sensitization, dermatitis or skin infection.

**Eyes:**

In the event that any dose of this material or the dust/bio-aerosols comes into contact with eyes it may have an immediate or delayed irritating effect resulting in redness and watering or an infection.

**Swallowed:**

Ingestion is unlikely through normal use. However, swallowing any amounts of this product may cause immediate or delayed abdominal discomfort and increase the risk of gastro-intestinal infections. There are no substances of toxicological significance contained in this product.

## 12. Ecological Information (non-mandatory)

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

**Ecotoxicity**

No information available. Does not Bio-accumulate.

**Persistence/Degradability**

No information available. Bio-degradable organic matter based. Non-persistent.

**Mobility**

Only mobile in significant water and wind.

**Environment**

Do not allow product to contaminate drains, ponds, streams and other waterways.

## 13. Disposal Considerations (non-mandatory)

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

Product Disposal: Dispose of in accordance with all applicable local and national regulations.

## 14. Transport Information (non-mandatory)

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

UN NO.: NA, UN CLAUSE: NA

UN PACKAGES: As for transport, avoid direct sunlight, load not to cause container breakages, corrosion, leakages and prevent a collapse of cargo. Avoid overloading. Trucks to use tarpaulin to cover the load (for bulk deliveries).  
IATA: Not regulated, under dangerous goods ICAO as per IATA regulations.  
ICAO: Not regulated, under dangerous goods as per IATA regulated.

## 15. Regulatory Information (non-mandatory)

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

Dangerous Substances Directive 67/548/EEC and Dangerous Preparation Directive 88/379/EEC. These regulations do not apply.

## 16. Other Information

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

This MSDS is an overview at the date of issue about the chemical, physical and biological properties of this product, safety hazards of the material and general guidance on how to safely handle the material in the occupational and natural environment. When further technical information is required on this Material Safety Data Sheet (MSDS), please contact Greenfield Eco Solutions Pvt. Ltd.