

## Health & Safety Data Information

### 1) Identification of the substance and company

**Product Name :** Symbio Compost Tea Starter  
**Synonyms ( if any):**

**Supplied by:** Symbio  
Unit 8 Coopers Place  
Combe Lane  
Wormley  
Surrey GU8 5SZ

**Tel:** 01428 685762  
**Fax:** 01428 685702  
**www.symbio.co.uk**

### 2) Composition & Information on Ingredients

**Contains:** 42% organic matter derived from palm kernel and molasses combined with 40% Potassium salts of humic acid. ~18% moisture. Protein 9%, Sucrose 12-14%, Ffibre 13.5%, Ash 15%, N 1.44%, P 0.39%, Ca 4.1%, Na 1.86%.

**Components which may be Hazardous:** This product is not classified as dangerous to health or the environment.

### 3) Hazards Identification

**Specific Risks :** None  
**Principal Dangers :** None

Formulation components:	CAS Number	Einecs No.	Content of humic components in dry matter	K%	Symbol hazard	R code
Humic acids / Potassium salts.	68514-28-3	271-030-1	>60% - 80%	14-16%	None	None
Palm kernel / Molasses	N/A	N/A	N/A	1.2%	None	None

### 4) First Aid Information

**General Instructions:** In case of health troubles consult a doctor and provide information from this data sheet.

**Exposure Route**

**Inhalation** Remove source of exposure, provide fresh air, rinse mouth with fresh water. Seek medical advice if symptoms persist.

**Skin Contact** Rinse skin with a stream of water. In case of persistent symptoms, contact a doctor..

**Eye Contact** Open the eyes as wide as possible and flush with flowing water for 10 minutes so that the water is reaching under the eyelids. Seek medical advice if symptoms persist.

**Ingestion** Rinse mouth with potable water, then drink ca ½ litre of water. Do not invoke vomiting, seek medical care where symptoms are present. Small quantities are unlikely to be harmful. Large quantities may give rise to gastro intestinal disorders.

**Delayed Effects :** Possibility of irritation in sensitive subjects. Seek medical advice if symptoms persist.

### 5) Fire Fighting Measures

**Flammable class:** Non-flammable. Use a stream of water / water mist for extinguishing.

**Prevention:** Drench packs with water if exposed to fire.

**Extinguishing media:** Use a stream of water or mist for extinguishing. Do NOT use carbon dioxide or powder appliances.

**Hazards:** If ignited dangerous flue gases – carbon dioxide, carbon monoxide and potassium oxides may be released.

**Special protection:** Firefighters - Wear appropriate full protective clothing and breathing apparatus.

### 6) Accidental Release Measures

**Personal Precautions:** Use personal protective equipment. Avoid skin and eye contact, conform with basic hygiene measures. Do not eat or drink or smoke whilst working with the substance. Keep away from open fires.

**Environmental Precautions:**

**Spillage control:** Avoid contamination of water bodies, drains and soil. In case of a spillage remove the substance with mechanical means – sweeping or hovering. Place the residues in a suitable waste container.

**Waste disposal:** Disposal in accordance with local authority regulations.

### 7) Handling & Storage

**Handling:** Handle the product only in designated areas. Prevent unnecessary dust generation. Drinking, eating and smoking forbidden whilst working around this substance. No special measures required for handling. Where packed bags on pallets, take care to prevent the bags being ruptured.

**Storage:** Store the substance in the original packaging, in a dry environment and protect from exposure to the elements. Avoid heat and humidity, Temperature range 5 -35 °C.

## 8) Exposure Controls / Personal Protection

Exposure controls

**Exposure Limitation values:**

The exposure control parameters are not defined. (Annex no 2. Chemical substances, their hygiene limits and definition procedure. NV No. 361/2007 Coll.) The limiting values of the biological exposure tests indicators are not defined either. (Annex No.2 Limiting values of the biological exposure test indicators. Regulation no. 432/2003 Coll.)

**Limitation of the worker exposure:**

Provide sufficient ventilation, local method of exhaust recommended. Provide workers with personal protective clothing and acquaint them with the substances' character, datasheet and personal environmental protection conditions. Contaminated work clothes can be used again after thorough cleaning. Wash hands and face after work, with soap and water and treat hands with a moisturising cream where appropriate.

**Personal Protection:**

- Respiratory:** Facemask when dust particles are released
- Hand protection:** Protective rubber / nitrile gloves.
- Skin protection:** Wear coverall or suitable work clothing to protect.
- Eye protection:** Protective glasses.

**Environmental exposure limitations:**

Protect against the substance leaking into drains, underground water and soil.

## 9) Physical & Chemical Properties

<b>Physical state:</b>	Solid powder substance below 20°C
<b>Colour:</b>	Black and brown
<b>Odour:</b>	Molasses
<b>pH value:</b>	Not available
<b>Initial boiling point (°C):</b>	Not available
<b>Melting point (°C):</b>	Not available
<b>Bulk Density:</b>	Not available
<b>Flash point (°C):</b>	Not available
<b>Auto-ignition temperature (°C):</b>	Not available
<b>Explosive properties:</b>	Not available
<b>Oxidising properties:</b>	Not available
<b>Vapour pressure:</b>	Not available
<b>Relative density:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Solubility:</b>	Not available
<b>Partition coefficient:</b>	None
<b>Other data:</b>	

## 10) Stability & Reactivity

<b>Stability:</b>	Stable under normal conditions of storage, handling and use
<b>Conditions to avoid:</b>	Contact with strong oxidants. Sources of explosion and danger.
<b>Materials to avoid:</b>	Strong oxidising agents.
<b>Hazardous decomposition:</b>	Carbon dioxide, potassium oxide and carbon monoxide can be released in fire.

## 11) Toxicological Information

<b>General toxicity:</b>	
<b>Inhalation:</b>	Products not classified. Unlikely to be hazardous under normal conditions of use.
<b>Ingestion:</b>	The substance can cause irritation of the respiratory organs in sensitive individuals.
<b>Eye contact:</b>	The substance can cause irritation of alimentary tract in sensitive individuals.
<b>Skin contact:</b>	The substance can cause eye irritation to sensitive individuals. The substance can cause skin irritation in sensitive individuals.
<b>Dangerous effects on health:</b>	
<b>Acute toxicity:</b>	
<b>Acute oral toxicity:</b>	LD <sub>50</sub> (oral rat) > 2000mg/Kg
<b>Acute inhalation toxicity:</b>	N/A
<b>Acute dermal toxicity:</b>	LD <sub>50</sub> (oral rat) > 2000mg/Kg
<b>Skin irritation:</b>	The substance has no irritable effects on skin (Rabbit) – EU B.4 method
<b>Eye irritation:</b>	The substance has no irritable effects on eyes (Rabbit) – EU B.5 method
<b>Sensitisation:</b>	The substance has no sensitising effects. EU B.42 method
<b>Toxicity after repeated doses:</b>	28 day test (oral rat) EU B.7 method
<b>CMR effects (carcinogenous, mutagenous and toxic for reproduction):</b>	
<b>Carcinogenity:</b>	
<b>Mutagenity:</b>	N/A a/ in vitro Ames test (bacterial text of back mutation) negative – EU B.13/14 method Chromosomal aberration test (non bacterial) negative – OECD 473 method b/ in vivo Negative micronucleus test EU B.12 method N/A
<b>Reproductive toxicity:</b>	

## 12) Ecological Information

**Environmental Effects :** Will stimulate plant growth.  
**Mobility :** None.  
**Degradability :** The substrate is fully bio degradable over time.  
**Aquatic Toxicity :** Will cause nutrient enrichment of water bodies.

## 13) Disposal Considerations

**Possible risks in the substance or agent removal:** In handling use personal protective measures and provide barrier against environmental leakage. In handling avoid substance divergence.

**Disposal manner:** Hand over the designated waste for disposal by an appropriate specialised company. Clean the package and hand over to persons collecting the waste.

**Legal regulations:** CR Act No. 185/2001 Coll., to regulate waste as amended  
CR Act No. 477/2001 Coll., to regulate packaging as amended.

## 14) Transport Information

**No special Precautions :** Not assigned in :  
The Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations  
The Road Traffic Carriage of Dangerous Substances in Packages Regulations

## 15) Regulatory Information

**Supply Label Details :** Manufacturer's classification  
CAS number 68514-28-3  
EINEICS number 271-030-1

**Label Name :** **Symbio Compost Tea Starter**  
**Symbols :** None  
**Risk Phrases :** None  
**Safety Phrases :** S2 Keep out of the reach of children.  
S8 Keep container dry.  
S13 Keep away from food, drink and animal foodstuffs.  
S20 When using, do not eat or drink.  
S22 Do not breathe dust.  
S24/25 Avoid contact with skin and eyes  
S36/39 Wear suitable protective clothing and eye/face protection  
S47 Keep at temperature not exceeding 35°C

## 16) Other Information

The above information is based upon the state of our knowledge of the product and the information supplied by the manufacturer at the time of writing. No warranty is implied with respect to the quality or the product. The user should satisfy himself that the product is entirely suitable for the intended use.

This material is usually used for: Enhancing biological activity and encouraging mycorrhizal associations in sports turf.

**Keep humidity below 2%**