



# Safety Data Sheet

29 CFR 1910.1200

**Section 1: Company and Product Identification**

**Product Name:** Sanctuary Shoots

**Product Use:** Sanctuary Shoots is an advanced turf product designed to regulate soil moisture and nitrogen while feeding soil biology.

**Company:** The Sanctuary  
 P.O. Box 656  
 Winter Park, CO 80482  
 PH: 970-726-4848

**Emergency Response:** 1-800-658-2481

**Section 2: Hazards Identification**

**Hazard Pictograms:**



**Signal Word:** Caution

**Hazard Category:** Acute tox, oral Cat 5  
 Acute tox, dermal Cat 5  
 Skin corrosion/irritation Cat 3  
 Acute tox, inh. Cat 5  
 Serious eye damage/eye irritation Cat 3

**Hazard Statements:** H303: May be harmful if swallowed  
 H313: May be harmful in contact with skin  
 H316: Causes mild skin irritation  
 H333: May be harmful if inhaled  
 H320: Causes eye irritation

**Precautionary Statements:**

P202: Do not handle until all safety precautions have been read and understood  
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
 P220: Keep/Store away from clothing/combustible materials  
 P221: Take any precaution to avoid mixing with combustibles  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
 P264: Wash thoroughly after handling  
 P270: Do not eat, drink or smoke when using this product  
 P271: Use only outdoors or in a well-ventilated area  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P284: Wear respiratory protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water  
 P304+P340: IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338+310 - If in eyes: Rinse cautiously with water for several minutes. Remove any contact lenses if present and easy to do, continue rinsing with plenty of water for 15 minutes. Immediately call a physician.  
 P310: Immediately call a POISON CENTER or doctor/physician  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell  
 P330: Rinse mouth  
 P405: Store locked up  
 P332+P313: If skin irritation occurs: Get medical advice/attention  
 P337: If eye irritation persists: Get medical advice/attention  
 P362: Take off contaminated clothing and wash before reuse

P403+P233: Store in a well ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with local/national/international rules.

**Hazards not otherwise classified:** Not applicable, none known.

**Section 3: Composition / Information on Ingredients**

Hazardous substance (name)	Hazard Category	CAS#	Weight %
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Calcium Nitrate	Acute tox, oral 4, H302 Skin Irrit 3, H316 Irrit. 2A, H319	Eye	10124-37-5	22.5-27.5%
Phosphoric Acid	Acute tox, oral 4, H302 toxic, dermal 5, H313 Corr./Irrit. 1, H314 Acute Tox Inh. 1/2, H330	Acute Skin	7664-38-2	1-2%
Potassium Nitrate	Ox. Liq 2, H272 Skin Irrit. 2, H315 Irrit. 2A,H 319 STOT SE 3, H335	Eye	7757-79-1	1%
Molasses:	Not classified for physical or health hazards according to GHS.		68476-78-8	15-20%
Water	No phrases apply. available.	No data	7732-18-5	50.5-60.5%

#### Section 4: First Aid Measures

**If ingested:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**If inhaled:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

**Protection of First-Aiders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Notes to Physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

#### Section 5: Fire Fighting Measures

**General Info:** May be combustible at high temperature.

**Products of Combustion:** These products are nitrogen oxides metal oxide/oxides .

**Extinguishing Method /** Use extinguishing media suitable for the surrounding fire. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special Remarks on Fire** Reacts with metals to liberate flammable hydrogen gas. Formation of flammable gases with aldehydes, cyanides, Hazards: mercaptins, and sulfides.

**Special Remarks on** Mixtures with nitromethane are explosive. (Phosphoric Acid)  
**Explosion Hazards:**

#### Section 6: Accidental Release Measures

**Personal precautions,** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep **protective equipment and** unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid **procedures:** breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for Cleanup:** Large Spills: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 12). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 12 for waste disposal.

Small Spills: Stop leak if without risk. Material free from contamination can be used for its original purpose. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7: Handling and Storage

**Safe Handling Precautions:** Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from incompatibles such as oxidizing agents, combustible materials, metals, alkalis. May corrode metallic surfaces.

**Recommendations for Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store in original packaging as approved by manufacturer. Keep away from heat and direct sunlight. Avoid microbiological contamination.

## Section 8: Exposure Control / Personal Protection

**General / Engineering Controls:** Use only with adequate ventilation. If user operations generate fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure eyewash facilities are located close to the working environment.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes or mists. Recommended: splash goggles.

**Skin Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber.

**Personal Protection Equipment:** Splash goggles. Gloves.

## Section 9: Physical and Chemical Properties

<b>State:</b> Liquid	<b>Melting Point:</b> Not avail	<b>Freezing Point:</b> Not avail
<b>Color:</b> Black/ Brown	<b>Boiling Point/Range:</b> Unknown	<b>pH</b> ~4.0
<b>Sp Grav:</b> Not avail	<b>Odor:</b> Molasses	<b>Water Solubility:</b> 100%
<b>Evaporation rate:</b> Not avail	<b>Flash Point:</b> Not avail	<b>Part. Coeff (n-octanol/water)</b> Not avail
<b>Upper Flam Limits:</b> Not avail	<b>Lower Flam Limits:</b> Not avail	<b>Vapor Pressure:</b> Not avail
<b>VOC Content (lbs/gal):</b> Not avail	<b>Viscosity:</b> Not avail	<b>Autoignition Temp:</b> Not avail

## Section 10: Stability and Reactivity

**Stability (Normal Conditions):** Stable under recommended storage and handling conditions (see section 7).

**Microbiological Stability:** Stable unless diluted with >5% water when yeast, mould and some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow in undiluted product due to its high osmotic pressure and low water activity.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Reactions:**

**Incompatibility with Various Substances:** Reactive or incompatible with the following materials: Dimethyl formamide, combustible materials, acids, oxidizing agents and alkalis.

**Corrosivity:** Extremely corrosive in presence of copper, of stainless steel(304), of stainless steel(316). Highly corrosive in presence of aluminum. Minor corrosive effect on bronze. Severe corrosive effect on brass. Corrosive to ferrous metals and alloys. Non-corrosive in presence of glass.

**Hazardous Decomposition products:** Burning can produce CO<sub>2</sub> and water, N compounds. Oxides of nitrogen and toxic metal fumes may form when heated to decomposition.

**Polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

### Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential Acute Health Effects:** Ingestion: May be harmful if swallowed.

**Effects:**

Eye Contact: Corrosive. Liquid or vapor causes eye irritation.

Skin Contact: Corrosive and causes skin irritation.

Inhalation: Harmful in case of inhalation (lung corrosive).

### Section 12: Ecological Information

**Environmental Effects:** No known significant effects or critical hazards.

**Aquatic Ecotoxicity:** Due to its high BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ('bloom') and dissolved oxygen reduction with possible deleterious effects on fish.

**Biodegradability:** Most inorganic compounds are not biodegradable. The product does not show any bioaccumulation phenomena.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Biodegradation:**

### Section 13: Disposal Information

**Waste Disposal Procedures:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Consult your local or regional authorities.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

### Section 14: Transport Information

**Shipping Name:** Sanctuary Shoots 3-0.6-0.6

### Section 15: Regulatory Information

### Section 16: Other Information

**SDS Author:** The Sanctuary

**Version Date:** 1/15/17

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