




# Safety Data Sheet

29 CFR 1910.1200

**Section 1: Company and Product Identification**

**Product Name:** Sanctuary Bloom  
**Product Use:** Sanctuary Bloom is designed to supply reproductive energy to plants.  
**Company:** The Sanctuary, Inc  
 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  
 Skin corrosion/irritation Cat 3  
 Serious eye damage/eye irritation Cat 3  
 Acute tox, inh. Cat 5

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

**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  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray  
 P262: Do not get in eyes, on skin, or on clothing  
 P264: Wash thoroughly after handling  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P285: In case of inadequate ventilation wear respiratory protection  
 P301+P331+310: IF SWALLOWED: Do NOT induce vomiting. If large quantities are swallowed, call a physician immediately.  
 P303+P361+P353+310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304+P340+342 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, seek immediate medical attention.  
 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.  
 P308+313: IF exposed or concerned: Get medical advice/attention  
 P403+235: Store in a well ventilated place. Keep cool  
 P405: Store locked up  
 P406: Store in a corrosive resistant container, may corrode metallic surfaces  
 P411+235: Store at temperatures not exceeding 23 °C/73.4 °F.  
 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 %
Phosphoric Acid	Skin Corr. 1B, H314 Eye Dam. 1, H318	7664-38-2	5-10%
Potassium Nitrate	Ox. Liq 2, H272	7757-79-1	0.5-1.5%
Urea	Skin Irrit. 2, H315 Eye Irrit. 2B, H320	57-13-6	0.5-2.5%
Ammonium Hydroxide	Acute Tox., Oral. 4, H302 Skin Corr. 1A, H314 Serious Eye Dam. 1, H318 Acute Aq. Tox. 1, H400 Chronic Aq. Tox.1), H410	1336-21-6	0.5-2.5%

Calcium Nitrate	Skin Irrit 3, H316 Irrit. 2B, H320	Eye	10124-37-5	1-4%
Molasses:	Not classified for physical or health hazards according to GHS.		68476-78-8	1.5-4%
Water	No phrases apply. available.	No data	7732-18-5	75.5-91%

#### Section 4: First Aid Measures

**If ingested:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**If inhaled:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. Immediate action is critical to minimize possibility of blindness.

**Skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

#### Section 5: Fire Fighting Measures

**General Info:** Flammable vapors may accumulate in confined spaces.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Extinguishing Method /** Use extinguishing media suitable for surrounding materials. SMALL FIRE: Use DRY chemical powder. LARGE FIRE:

**Equipment:** Use water spray, fog or foam. Do not use water jet. Fire Fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Explosion Hazards in Presence of Various** Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of shocks, friction or heat.

**Substances:**

**Fire Hazards in Presence of Various Substances:** Of metals. Slightly flammable to flammable in presence of heat.

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

**Special Remarks on Explosion Hazards:** Reacts with metals to liberate flammable hydrogen gas. Formation of flammable gases with aldehydes, cyanides, mercaptans, and sulfides. In contact with easily oxidizable substances, it may react rapidly enough to cause ignition, violent combustion, or explosion. It increases the flammability of any combustible substance. A mixture of potassium nitrate and calcium silicide is a readily ignited primer and burns at a very high temperature. Contact of the carbide with molten potassium nitrate causes incandescence. When heated to decomposition it emits very toxic fumes.

**Special Remarks on Explosion Hazards:** Mixtures with nitro methane are explosive. (Phosphoric Acid). A mixture of potassium nitrate and antimony trisulfide explodes when heated. When copper phosphide is mixed with potassium nitrate and heated, it explodes. Mixture of germanium nitrate and potassium nitrate explodes when heated. A mixture of potassium nitrate, sulfur, arsenic trisulfide is known as a pyrotechnic formulation. When titanium is heated with potassium nitrate, an explosion occurs. A mixture of potassium nitrate and titanium disulfide explodes when heated. When potassium nitrate is mixed with boron, laminac, and trichloroethylene an explosion can occur. Powdered zinc and potassium explode if heated. Arsenic disulfide forms explosive mixtures when mixed with potassium nitrate. Charcoal (powdered carbon) and potassium nitrate make a pyrotechnic mixture. Contact at 290 C causes a vigorous combustion and the mixture explodes on heating. A mixture of potassium nitrate and sodium acetate may cause an explosion. A mixture of potassium nitrate and sodium hypophosphite constitutes a powerful explosive. Mixtures of potassium nitrate with sodium phosphinate and sodium thiosulfate are explosive.

#### Section 6: Accidental Release Measures

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

**Containment Equipment** Large Spills: Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-

#### Section 7: Handling and Storage

**Safe Handling Precautions:** Do not ingest. Do not breathe gas/fumes/ vapor/spray. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. 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. Do not store above 23 deg C (73.4 deg F.). Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid).

## Section 8: Exposure Control / Personal Protection

**General / Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Work Clothing:** Full impervious protective suitsuit.

**Eye/face protection:** Wear safety goggles or face shield.

**Skin Protection:** Gloves. Boots.

**Respiratory Protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Additional Information:** Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

**Personal Protection In Case of a Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE

## 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> Brown	<b>Boiling Point/Range:</b> Unknown	<b>pH</b> <3.0
<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):** Unstable. Exposure to heat may result in build-up of dangerous pressures. A strong oxidizer, reacts upon contact with many organic substances, particularly textile and paper.

**Incompatible materials:** Reactive with reducing agents, oxidizing agents, combustible materials organic materials, metals, alkalis, hydrazine, ammonia.

**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.

**Materials to Avoid:** Organic chemicals. Ammonia. Acids, acrolein, dimethyl sulfate, halogens, silver nitrate, propylene oxide, nitro methane, silver oxide, silver permanganate, oleum, beta-propiolactone. Most common metals.

**Conditions to Avoid:** Excess heat.

**Hazardous Decomposition products:** Decomposes on heating/burning emitting toxic fumes, including those oxides of nitrogen and ammonia.

**Polymerization:** Will not occur.

**Special Remarks on Reactivity:** Potassium nitrate reacts vigorously when heated with sulfides of the alkaline earth group including barium sulfide and calcium sulfide. Also incompatible with boron, and finely powdered metals, chromium nitride, aluminum, titanium, antimony, germanium, zinc, zirconium, calcium disilicide, metal sulfides, carbon, sulfur, phosphorus, phosphides, sodium phosphinate, sodium thiosulfate, citric acid, tin chloride, sodium acetate, thorium carbide. Reacts violently with Gallium Perchlorate. Reacts with chlorine to form chloramines. It also reacts with the following: sodium hypochlorite, sodium nitrate, calcium hypochlorite, NaNO<sub>2</sub>, P<sub>2</sub>Cl<sub>5</sub>, nitrosyl perchlorate, strong oxidizing agents (permanganate, nitrate, dichromate, chloride).

## Section 11: Toxicological Information

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

**Other Toxic Effects on Humans:** Harmful in case of inhalation (lung corrosive). Harmful in case of skin contact (corrosive, permeator), of eye contact (corrosive), or ingestion.

## Section 12: Ecological Information

**General information:** Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

**Ecotoxicity:** No data available.

**Products of Biodegradation:** Possible hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Biodegradation:**

**Environmental Fate:** Avoid contaminating waterways, drains and sewers. This material is expected to be toxic to aquatic life.

### Section 13: Disposal Information

**Waste Disposal Procedures:** Dispose according to federal, provincial/state and local environmental regulations.

### Section 14: Transport Information

**Shipping Name:** Sanctuary Bloom 2-4-2

### Section 15: Regulatory Information

### Section 16: Other Information

**SDS Author:** The Sanctuary, Inc

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

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