

MATERIAL SAFETY DATA SHEET  
EMERALD TRIANGLE DEEP FUSION GROW

## SECTION 1. MATERIAL IDENTIFICATION

**Product Name:** Deep Fusion Grow

**Chemical Family:** aqueous solution of minerals and nitrates

**Product Use:** plant nutrient solution

**Manufactured by:** Emerald Triangle, P. O. Box 305, Fortuna, CA 95540  
(707)-725-4119 Fax (707)725-3747

**For Emergency Day or Night Call:** CHEMTREC – Domestic North America 800-424-9300,  
International 703-527-3887 (collect calls accepted)

## SECTION 2. INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS

**Ingredients** – Deep Fusion Grow is a mixture of chemicals for plant nutrition. The product is an aqueous, inorganic, nitrate solution. Derived from: ammonium phosphate, magnesium nitrate, magnesium sulfate, potassium nitrate, potassium phosphate, kelp and molasses.

**Exposure Limits:** As long as these chemicals remain in aqueous solution and do not become aerosolized, they are not an inhalation hazard.

## SECTION 3. HAZARDS IDENTIFICATION

STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**NFPA Ratings:** 1 Flammability / 0 Reactivity / 3 Oxidizer

### Potential Health Effects

**Primary Entry Routes:** ingestion, inhalation, and skin contact.

**Target Organs:** Gastrointestinal system, blood system, skin, mucous membranes.

**Ingestion:** Ingestion can cause severe gastro-intestinal distress, with abdominal pain, nausea, vomiting, and watery or bloody diarrhea.

**Eye:** Irritation, redness, and pain.

**Skin:** Irritation.

**Inhalation: Irritation.** Symptoms may include coughing, shortness of breath.

**Carcinogenicity:** IARC, NTP and OSHA do not list as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** Unknown

**Chronic Effects:** Repeated or prolonged exposure to some ingredients can produce target organ damage.

**Other:** None

#### **Section 4. First Air Measures**

**Ingestion:** Do not induce vomiting. Loosen tight clothing, such as collar, tie, belt and waistband. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Seek medical attention.

**Eye Contact:** Do not allow victim to rub or keep eyes tightly shut. Remove contact lenses then gently lift eyelids and flush immediately and continuously with flooding amount of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

**Skin Contact:** Wash exposed are with soap and water. For reddened or blistered skin, consult a physician.

**After First Aid:** Get appropriate community medical support.

#### **Section 5. Fire and Explosion Data**

**Flash Point:** Unknown

**LEL:** Unknown

**Flammability Classification:** Deep Fusion Grow is not combustible. However, some components are powerful oxidizers and can initiate and intensify combustion of flammable materials.

**Burning Rate:** Unknown

**Extinguishing Media:** Use dry chemical, carbon dioxide, water spray, fog or foam.

**Unusual Fire or Explosion Hazards:** Can accelerate burning. Container may explode in heat of fire.

**Hazardous Combustion Products:** Can decompose explosively in a fire.

**Fire Fighting Instructions:** Contains oxidizing material. Do not use water jet. Keep fire exposed containers cool with water spray. Remove containers from the fire area, if it can be done safely. Avoid contact with organic materials. Do not release run off from fire control methods to sewers or waterways.

**Fire Fighting Equipment:** Because fire may product toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a fullface piece.

#### **Section 6. Accidently Release Measures**

**Spill/Leak Procedures:** Wipe up with absorbent towels or mop. Avoid contact with organic materials.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

#### **Section 7. Handling and Storage**

**Handling Precautions:** Avoid ingestion, skin contact, eye contact, and inhalation.

**Storage Requirements:** Separate from flammable and combustible materials as well as from reducing agents such as zinc, alkaline metals, and formic acid.

**Regulatory Requirements:** Follow applicable OSHA regulations

## **Section 8. Exposure Controls/Personal Protection**

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

**Administrative Controls:** Avoid breathing mist.

**Respiratory Protection:** If this product is used a directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH –approved respirator. If respirators are used, OSHA requires a written respiratory protection program that include, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Eye Protection:** When handling Deep Fusion Grow, protective eyewear or goggles should be worn per OSHA regulations (29 CFR 1910.134). Contact lenses pose a special hazard. Soft lenses may absorb irritants, and all contact lenses concentrate irritants. Particles may adhere to contact lenses and cause corneal damage.

**Protective Clothing:** Wear when the possibility of skin or clothing contamination may exist. Wear neoprene or nitrile gloves when directly handling the product.

**Safety Stations:** Eye wash stations, quick drench showers, and washing facilities should be readily accessible to workers handling large quantities of Deep Fusion Grow.

**Contaminated Equipment:** Remove this material from shoes and equipment. Launder contaminated clothing before wearing.

**Comments:** Never eat, drink or smoke in work areas. Practice good personal hygiene after using this product, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## **Section 9. Physical and Chemicals Properties**

**Physical State:** Aqueous solution.

**Density:** 1.108

**pH:** 3-4

**Appearance:** Dark liquid with slight odor of molasses

**Vapor Pressure:** Unknown

**Water Solubility:** Soluble

**Other Solubilities:** Unknown

**Freezing Point:** -1 degrees C

**Boiling Point:** 101 degrees C

**Viscosity:** Unknown

## **Section 10 Stability and Reactivity**

**Stability:** Stable at room temperature in closed containers, under normal storage and handling conditions. Unstable at high temperatures.

**Polymerization:** Hazardous polymerization does not occur.

**Chemical Incompatibilities:** Deep Fusion Grow contains chemicals that are strong oxidizing agents that react with strong alkalis to liberate ammonia. They may also react vigorously with reducing materials, oil, and organic solvents.

**Conditions to Avoid:** Evaporating to near dryness. Mixing with combustible materials, high temperatures.

**Hazardous Decomposition Products:** At extreme temperatures, oxides of nitrogen, carbon monoxide or phosphoric oxide may be evolved.

### **Section 11. Toxicological Information**

Most of the chemicals in Deep Fusion Grow are toxic by ingestion, inhalation or dermal contact .

### **Section 12. Ecological Information**

**Ecotoxicity:** Unknown

**Environmental Fate:** Not expected to be significant.

**Environmental Degradation:** Unknown

### **Section 13. Disposal Considerations**

**Waste Disposal:** Follow Federal, State and local regulations.

### **Section 14. Transportation Information**

DOT Transportation Data (49 CFR 172.101): Nitrates, inorganic aqueous solution. Concentrations of Deep Fusion Grow, at the minimum temperature encountered during normal transportation, will not exceed 80% of the saturation limit. It is exempt from labeling (see code 58 of 49 CFR 172.102).

### **Section 15. Regulatory Information**

EPA Regulations: Not listed

### **Section 16. Other Information**

Emerald Triangle Deep Fusion Grow is a plant nutrition product. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

Emerald Triangle Products provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product