

## MATERIAL SAFETY DATA SHEET

Green Stone Products: Lion Heart 8/08/2011

### SECTION 1. MATERIAL IDENTIFICATION

**Product Name:** Lion Heart

**Chemical Family:** A mixture of plant nutrition minerals

**Product Use:** Hydroponic plant nutrient

**Manufactured by:**

Green Stone Products 130 Doolittle Drive Suite 3 & 14 San Leandro CA 94577

**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:** Liquid Lion Heart is a concentrated nutrient additive that

promotes flowering. The chemical identity of the compounds and exact proportions used

in the mixture are a trade secret. Liquid Lion Heart Ripening Formula is derived from

Monopotassium Phosphate and Potassium Sulfate. It also contains non-plant food ingredient: Humic Acid derived from Leonardite.

**Exposure Limits:** Exposure limits are not established for Liquid Lion Heart

### SECTION 3. HAZARDS IDENTIFICATION

**\*\*\* Emergency Overview \*\*\***

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing

**Potential Health Effects:** Primary Entry Routes: Ingestion, inhalation, and skin contact

**Target Organs:** Skin, eyes, and gastrointestinal tract

**Ingestion:** Can cause irritation to the gastrointestinal tract, may cause nausea, vomiting, and diarrhea.

**Eye:** Can cause irritation, redness, and pain.

**Skin:** Prolonged exposure can cause irritation or rash. Symptoms can include redness, itching and pain.

**Inhalation:** Can cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

**Carcinogenicity:** IARC, NTP, and OSHA do not list any of the ingredients as a carcinogen.

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

**Chronic Effects:** Repeated or prolonged exposure to some ingredients can cause irritation of the respiratory tract.

**Other:** None

#### **Section 4. FIRST AID MEASURES**

**Ingestion:** If swallowed, give several glasses of water to drink to dilute product. Never give anything by mouth to an unconscious person. Only induce vomiting as directed by medical personnel. Call a physician.

**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 amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

**Skin Contact:** Flush exposed area with soap and water for at least 15 minutes. If irritation persists, consult a physician. Remove contaminated clothing, and wash clothing before reuse.

**Inhalation:** Remove exposed person to fresh air and support breathing, if necessary. If breathing becomes difficult, administer oxygen. Consult a physician as soon as possible.

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

#### **SECTION 5. FIRE AND EXPLOSION DATA**

**Fire:** Not believed to be a fire hazard.

**Flammability Classification:** Liquid Lion Heart is not combustible.

**Burning Rate:** Unknown

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

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

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Spill /Leak Procedures: Can be diluted, and flushed into a sewer.

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: Keep in tightly closed containers in a cool, dry, ventilated area.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

Respiratory Protection: If this product is used as 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 includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Eye Protection: When handling Liquid Lion Heart Ripening Formula, 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 impervious protective clothing 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 Liquid Lion Heart Ripening Formula.

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 CHEMICAL PROPERTIES**

Physical State: Liquid

pH: 5.6

Appearance and Odor: Light reddish liquid, with soil odor

Water Solubility: Soluble

Boiling Point: 1010 C

Freezing Point:: -10 C

Vapor Pressure: Unknown

Other Solubility: Unknown

#### **SECTION 10. STABILITY AND REACTIVITY**

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

Polymerization: Hazardous polymerization does not occur.

Chemical Incompatibilities: Strong oxidizing and reducing agents

Conditions to Avoid: Mixture with incompatibles, high temperatures

Hazardous Decomposition Products: At extreme temperatures, irritating and highly toxic gases may be released.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Some chemicals in Liquid Lion Heart are toxic by ingestion, inhalation, or dermal contact. None of the ingredients are known to be carcinogens.

#### **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): Not regulated

### **SECTION 15. REGULATORY INFORMATION**

EPA Regulations: Not listed

### **SECTION 16. OTHER INFORMATION**

Green Stone Products Lion Heart 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.

Green Stone 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.