

MATERIAL SAFETY DATA SHEET

GENERAL HYDROPONICS LIQUID KOOLBLOOM™

2/16/06

SECTION 1. MATERIAL IDENTIFICATION

Product Name: Liquid KoolBloom™ Ripening Formula

Chemical Family: A mixture of plant nutrition minerals

Product Use: Hydroponic plant nutrient

Manufactured by: General Hydroponics, 3789 Vine Hill Rd. Sebastopol CA 95472
(707) 824-9376 Fax: (707) 824-9377

For Chemical Emergency

Spill Leak Fire Exposure or Accident:

Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS

Ingredients: Liquid KoolBloom™ Ripening Formula is a concentrated nutrient additive that promotes abundant flowering. The chemical identity of the compounds and exact proportions used in the mixture are a trade secret. Liquid KoolBloom™ Ripening Formula is derived from magnesium phosphate, potassium phosphate, and magnesium sulfate.

Exposure Limits: Exposure limits are not established for Liquid KoolBloom™

SECTION 3. HAZARDS IDENTIFICATION

*** Emergency Overview ***

**CAN CAUSES IRRITATION TO SKIN, EYES AND
RESPIRATORY TRACT. HARMFUL IF SWALLOWED.**

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 KoolBloom™ Ripening Formula 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 KoolBloom™ 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 KoolBloom™ 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: 5.0 @1g/L of distilled water

Appearance and Odor: Amber liquid, with musky vitamin odor

Water Solubility: Soluble

Boiling Point: Unknown

Vapor Pressure: Unknown

Other Solubility: Unknown

Freezing Point: 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 KoolBloom™ Ripening Formula 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

General Hydroponics Liquid KoolBloom™ Ripening Formula 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.

General Hydroponics 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.