



# Sicherheitsdatenblatt

# FloraNova Bloom

# **SECTION 1. MATERIAL IDENTIFICATION**

Product Name: FloraNova Bloom™

Chemical Family: Plant food minerals and non-plant food mixture in aqueous nitrate solution

**Product Use:** Hydroponic plant nutrient to promote vigorous flowering and fruit set. **Manufactured by:** General Hydroponics, 3789 Vine Hill Rd. Sebastopol CA 95472

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# SECTION 2. INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS

Ingredients: FloraNova Bloomtm is an especially formulated mixture of mixed in proportions to promote vigorous flowering and fruit set. The product is an aqueous, inorganic, nitrate solution. The exact proportions used in the mixture are a trade secret. The product is derived from ammonium molybdate, ammonium phosphate, calcium nitrate, potassium nitrate, potassium phosphate, potassium borate, magnesium sulfate, cobalt sulfate, copper sulfate, manganese sulfate, zinc sulfate, iron DTPA, and 0.1% Humic extracts derived from leonnardite.

Exposure Limits: there are no established exposure limits to FloraNova Bloomtm. Some of the chemicals used in FloraNova Bloomtm, are harmful if swallowed, and may cause irritation to skin, eyes, and respiratory tract. When these chemicals remain in aqueous solution and are not aerosolized, they are not an inhalation hazard.

# **SECTION 3. HAZARDS IDENTIFICATION**

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

CAUTION! MAY BE HARMFUL IF SWALLOWED, MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Potential Health Effects

**Ingestion:** Ingestion can cause severe gastrointestinal distress with abdominal pain, nausea, vomiting, and diarrhea.

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

**Skin:** Can cause irritation to the skin. Symptoms can include redness, itching, and pain. **Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing and 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 cause

methemoglobinemia, cyanosis, and convulsions.

Other: None

#### Section 4. FIRST AID MEASURES

**Ingestion**: Seek medical attention as soon as possible. If victim is conscious and alert, give 2 to 4 cupfuls of water. Never give anything by mouth to an unconscious person.

**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**

Flammability Classification: FloraNova BloomTM is not combustible. However, some components are powerful oxidizers and can initiate and intensify combustion of flammable

materials.

Flash Point: Unknown

Auto-ignition Temperature: Unknown

**LEL:** Unknown

**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

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 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: Wipe up with absorbent towels or mop, avoid contact with organic materials.

Regulatory Reguirements: 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 as directed, repiratory 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.

Eve Protection: When handling FloraNova BloomTM, 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 FloraNova BloomTM.

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 Molecular weight: unknown

Specific Gravity: 1.5

**pH**: 2

Appearance and Odor: Brown liquid with sweet vanilla-like odor

Vapor Pressure: Unknown Water Solubility: 100% Other Solubility: Unknown Freezing Point: Unknown Viscosity: Unknown

# **SECTION 10. STABILITY AND REACTIVITY**

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

conditions. FloraNova BloomTM is unstable at high temperatures. Polymerization: Hazardous polymerization does not occur.

Chemical Incompatibilities: FloraNova BloomTM 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:** Mixture with combustible materials, high temperatures.

Hazardous Decomposition Products: Oxides of nitrogen and toxic metal fumes and irritating

gases may be evolved when heated to decomposition. Polymerization: Hazardous polymerization does not occur.

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

Some chemicals in FloraNova BloomTM are toxic by ingestion, inhalation, or dermal contact. None of its ingredients are listed as 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): Ammonium Nitrate Fertilizer -- UN 2071 label Code 9 Packing Group III.

# SECTION 15. REGULATORY INFORMATION

**EPA Regulations:** Not listed

# **SECTION 16. OTHER INFORMATION**

General Hydroponics FloraNova Bloomtm 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.