



STOLLER ENTERPRISES, INC.

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FLOWER POWER

MATERIAL SAFETY DATA SHEET (11/04)

SECTION I PRODUCT IDENTIFICATION

NFPA HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0

SARA/TITLE III HAZARD CATEGORIES (See Section IX)

Company Name: STOLLER ENTERPRISES, INC

Address: 4001 W Sam Houston Pkwy. N, Suite 100
Houston, Texas 77043 U.S.A.

Emergency Phone Number: **CHEMTREC 1-800-424-9300**

Phone Number for Information: 713-461-1493

Chemical Family: Solution of Organic Bases and Boron

Chemical Name & Synonyms: Liquid Fertilizer containing Boron, Zinc and Molybdenum

Formula: Proprietary

Trade name & Synonyms: **FLOWER POWER**

SECTION II COMPOSITION/INGREDIENTS INFORMATION

INGREDIENTS:	CAS#	Approx. %	TLV
Orthoboric Acid	10043-35-3	17	N/E
Dimethyl Aminopropylamine	109-55-7	<.5	N/E
Monoethanolamine	141-43-5	6	3 ppm
Copper Hydroxide	20427-59-2	<.5	1 mg/m ³ as Cu
Molybdc Oxide	1313-27-5	<.1	
Zinc Oxide	1314-13-2	5	

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: 230°F **VAPOR PRESSURE (mm/Hg):** N/A
MELTING POINT: N/A **VAPOR DENSITY (air = 1):** N/A
SPECIFIC GRAVITY: 1.28 **REACTIVITY IN WATER:** -0-
SOLUBILITY IN WATER: 100%
APPEARANCE AND ODOR: Clear blue liquid - with no odor

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: Not Applicable (N/A) Product is non-flammable.
FLAMMABLE LIMITS: N/A **LEL:** **UEL:**
EXTINGUISHER MEDIA: In case of fire use: Carbon Dioxide (CO₂), Dry Chemical, Alcohol Foam.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear butyl rubber boots and clothing.

SECTION V PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY: Stable: Yes Unstable:
CONDITIONS TO AVOID: N/A
INCOMPATIBILITY, MATERIALS TO AVOID: Oxidizing Agents (perchlorates, nitrates, nitrites, etc.) and high concentrations of mineral acids
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Nitrogen Oxide, Carbon Dioxide and Nitric Acid possible in a fire. Ammonia and Hydrogen Cyanide under extreme heat as in a fire.
HAZARDOUS POLYMERIZATION: **MAY OCCUR:** **WILL NOT OCCUR:** X

SECTION VI HEALTH HAZARDS

A. **EXPOSURE LIMITS:** No Limits Established

B. **EFFECTS OF OVEREXPOSURE**

1 ACUTE

EYES: Contact with product may cause severe irritation and possibly irreversible damage.

SKIN: Harmful if absorbed through broken skin. Large doses may cause liver and kidney damage. May cause, discomfort, injury and death unless treated promptly.

INHALATION: Prolonged exposure to low concentrations of vapors may cause: sore throat and headache which are temporary.

INGESTION: May cause malaise, nausea, gastrointestinal damage, or even death.

2 CHRONIC: Prolonged or repeated inhalation overexposure may cause bronchitis or pneumonia.

C. **EMERGENCY FIRST AID PROCEDURES:**

EYES: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN: Remove product & immediately flush affected area with water for 15 minutes. Do not apply greases or ointments. Launder contaminated clothing.

INHALATION: Move patient to fresh air. Supplemental oxygen may be indicated. Assure mucous does not obstruct airway. Call Physician.

INGESTION: If swallowed, call a physician immediately. Do not induce vomiting.

D. **ADDITIONAL INFORMATION:**

Acute Toxicity Effects Data for 100% DMAPA:

Oral LD₅₀ (rat): 1640 mg/kg

Dermal LD₅₀ (rabbit): No Data

Inhalation LC₅₀ (rat): >21 mg/Liter/Hr (No deaths) (Estimate)

SECTION VII SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

HANDLING AND STORAGE: Keep containers closed and away from oxidizing agents. Store only in shipping container: Pails (HDPE, PVC), Drums (Polyethylene) and Mini Bulk tanks (Polyethylene). Bulk material should be stored in Polyethylene Tanks with PVC fittings.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: It is necessary to contain spill into the smallest area possible by diking, scooping, etc. Replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be held in a dry contained area.

WASTE DISPOSAL METHODS: Liquid should be applied to the soil as a fertilizer not to exceed 3 gallons per acre. Product absorbed onto dry carrier should be applied to soil as a fertilizer not to exceed 50 lbs. per acre.

SECTION VIII - SPECIAL PROTECTION / CONTROL MEASURES

RESPIRATORY PROTECTION: As required by emergency situation, use an OSHA or NIOSH approved respirator.

SPECIAL VENTILATION: Work outdoors in the open or well ventilated area with this product.

PROTECTIVE GLOVES: Wear latex, vinyl or butyl rubber gloves.

EYE PROTECTION: Use splash proof eye goggles. It is best to wear a full face shield. Eye wash should be available.

OTHER SPECIAL CLOTHING/EQUIPMENT: Wear clothing that covers the exposed skin area as much as possible.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling. Also wash clothing before reusing it.

SECTION IX ENVIRONMENTAL EFFECTS DATA

The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer, not to exceed 3lbs. of actual Boron per acre (see above under Waste Disposal Methods). If discharged into the marine environment it may be toxic to fish and other marine organisms. Due to its nutrient value, may contribute to eutrophication in bodies of water.

SECTION X TRANSPORTATION DATA

PROPER SHIPPING NAME: N/A (Trade Name: FLOWER POWER)

DOT HAZARD CLASS: NON-REGULATED MATERIAL

PLACARD: N/A

Stoller Enterprises, Inc., believes the information contained in this Material Safety Data Sheet is accurate, based on the information supplied by reputable suppliers of our raw materials. The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.