



# Stoller Enterprises

*Crop Health Leader*

## NITRATE BALANCER

MATERIAL SAFETY DATA SHEET (rev.8/02)

### SECTION I PRODUCT IDENTIFICATION

#### NFPA HAZARD RATINGS

HEALTH HAZARD 3 FIRE HAZARD 1 REACTIVITY 0

#### SARA/TITLE III HAZARD CATEGORIES (See Section IX)

Chemical Family: Solution of Organic Bases and Boron

Chemical Name & Synonyms: Liquid Fertilizer containing Boron and amines

Formula: Proprietary

Trade name & Synonyms: **NITRATE BALANCER**

### SECTION II COMPOSITION/INGREDIENTS INFORMATION

INGREDIENTS:	CAS#	Approx. %	TLV
Dimethyl Aminopropylamine	109-55-7	<5	N/E
Monoethanolamine	141-43-5	15 – 25	3 ppm
Copper Chloride Dihydrate	10125-13-0	<5	N/A

### 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:** 1.30 **REACTIVITY IN WATER:** -0-

**SOLUBILITY IN WATER:** 100%

**APPEARANCE AND ODOR:** Blue liquid - with no odor

### SECTION IV FIRE AND EXPLOSION DATA

**FLASH POINT:** Not Established (N/E)

**FLAMMABLE LIMITS:** N/E

**LEL:**

**UEL:**

**EXTINGUISHER MEDIA:** In case of fire use: Carbon Dioxide (CO<sub>2</sub>), 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

#### EXPOSURE LIMITS

No Limits Established

**EFFECTS OF OVEREXPOSURE****1 ACUTE**

- Inhalation:** Prolonged exposure to low concentrations of vapors may cause: sore throat and headache which are temporary.
- Eyes:** Contact with product may cause severe irritation and possibly irreversible damage.
- Ingestion:** May cause malaise, nausea, gastrointestinal damage, or even death.
- Skin:** Harmful if absorbed through broken skin. Large doses may cause liver and kidney damage. May cause, discomfort, injury and death unless treated promptly.

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

**ADDITIONAL INFORMATION:**

Acute Toxicity Effects Data for 100% DMAPA:

Oral LD<sub>50</sub> (rat): 1640 mg/kg

Dermal LD<sub>50</sub> (rabbit): No Data

Inhalation LC<sub>50</sub> (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 (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, 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:** Use butyl rubber gloves.

**EYE PROTECTION:** Use splash proof eye goggles. In emergency situations 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.

**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:** NITRATE BALANCER  
NON-HAZARDOUS MATERIAL  
NON-REGULATED MATERIAL

**DOT HAZARD CLASS:** N/A

**PLACARD:** N/A

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