

X- PRESS

Material Safety Data Sheet (rev.01/05)

**SECTION I**
**PRODUCT IDENTIFICATION**

**NFPA HAZARD RATINGS**  
 HEALTH HAZARD 3      FIRE HAZARD 1      REACTIVITY 0  
**SARA/ TITLE III HAZARD CATEGORIES**

Company Name:	STOLLER USA, INC.
Address:	4001 W. Sam Houston Parkway, N., Suite 100 Houston, Texas 77043-1226 U.S.A.
Emergency Phone Number:	CHEMTREC: In the U.S. and Canada call Toll-free: 1(800)424-9300 From other countries call collect: 1(703)527-3887
Phone Number for Information:	1(800)539-5283 or 1(713)461-1493
Chemical Family:	Solution of organic bases and metal oxides
Chemical Name & Synonyms:	Liquid fertilizer containing mixture of Chelated Metals
Formula:	Proprietary
Trade name & Synonyms:	X- PRESS

**SECTION II**
**PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>INGREDIENTS:</b>	<b>CAS#</b>	<b>Approx. %</b>	<b>TLV</b>
Zinc Oxide	1314-13-2	<5	10 mg/ m <sup>3</sup> (Powder)
Manganese Oxide	1344-43-0	<5	5 mg/ m <sup>3</sup> (Dust)
Copper Hydroxide	20427-59-2	<5	0.2 mg/ m <sup>3</sup> (ACGIH)
Dimethyl Aminopropylamine	109-55-7	1 - 5	N/ E
Monoethanolamine	141-43-5	10 - 25	3 ppm
Citric Acid	77-92-9	10 - 30	10 mg/ m <sup>3</sup>

**SECTION III**
**PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b>	212° F	<b>VAPOR PRESSURE (mm/ Hg):</b>	
<b>MELTING POINT:</b>	N/ A	<b>VAPOR DENSITY (air = 1):</b>	2.1
<b>SPECIFIC GRAVITY:</b>	1.25	<b>REACTIVITY IN WATER:</b>	N/ A
<b>SOLUBILITY IN WATER:</b>	100%	<b>EVAPORATION RATE:</b>	0.1
<b>APPEARANCE AND ODOR:</b>	Clear green solution without odor.		

**SECTION IV**
**FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b>	NOT ESTABLISHED	<b>LEL:</b>	<b>UEL:</b>
<b>FLAMMABLE LIMITS:</b>	NOT ESTABLISHED		
<b>EXTINGUISHER MEDIA:</b>	NONE		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	NONE		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	NONE		

**SECTION V****PHYSICAL HAZARDS (REACTIVITY DATA)**

**STABILITY:**  
**INCOMPATIBILITY, MATERIALS TO AVOID:**  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
**MAY OCCUR:**                      **WILL NOT OCCUR: X**

Stable: Yes                      Unstable:  
Intimate mixtures with chlorinated rubber above 216° F  
Ammonia, amines, carbon dioxide.

**SECTION VI****HEALTH HAZARDS****A. EXPOSURE LIMITS:**

1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED
2. Threshold Limit Value (TLV): NOT ESTABLISHED

**B. CARCINOGEN OR POTENTIAL CARCINOGEN:**

1. NPT: N/A
2. IARC: N/A
3. OSHA: N/A

**C. 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.

**D. 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.

**SECTION VII****SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

**HANDLING AND STORAGE:** Keep containers closed and dry. Wash hands thoroughly after using.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** Prevent material from entering sewers or waterways. Put material in covered labeled containers.

**WASTE DISPOSAL METHODS:** Follow all applicable federal, state and local regulations.

**SECTION VIII****SPECIAL PROTECTION / CONTROL MEASURES**

**LOCAL EXHAUST:** Provide general or local exhaust ventilation.

**SPECIAL VENTILATION:** not applicable

**PROTECTIVE GLOVES:** Wear protective clothing impervious to this material.

**EYE PROTECTION:** Use chemical goggles. Use fullface respirator when there is any likelihood of splashes.

**WORK/ HYGIENIC PRACTICES:** Wash hands thoroughly after using this product. Launder contaminated clothing before re-wearing.

**SECTION IX****ENVIRONMENTAL EFFECTS DATA**

---

This product may be toxic to fish. Keep out of lakes, streams, or ponds. To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

**SECTION X****TRANSPORTATION DATA**

---

**PROPER SHIPPING NAME:** X- PRESS

**DOT HAZARD CLASS:** Nonhazardous material, Nonregulated material

**PLACARD:** NO

**USDOT Proper Shipping Name:** X- PRESS Nonhazardous material, Nonregulated material

**IATA Proper Shipping Name:** N/ A

**IMO Proper Shipping Name:** 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 determinations 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.