

Golden Harvest Plus 5-18-2

Material Safety Data Sheet (rev.01/05)

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

	<b>NFPA HAZARD RATINGS</b>
	HEALTH HAZARD 2      FIRE HAZARD 0      REACTIVITY 0
	<b>SARA/ TITLE III HAZARD CATEGORIES</b>
	Immediate (ACUTE) Health: Yes      Reactive Hazard: No Delayed (Chronic) Health: Yes      Fire Hazard: No      Sudden Release of Pressure: No
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:	Inorganic acid- salt solutions.
Chemical Name & Synonyms:	N/ A, mixture
Formula:	Proprietary
Trade name & Synonyms:	<b>GOLDEN HARVEST PLUS Hi- Phos 5-18-2; GOLDEN HARVEST PLUS 5-18-2</b>

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

<b>INGREDIENTS:</b>	<b>CAS#</b>	<b>Approx. %</b>	<b>TLV</b>
Zinc Chloride	7646-85-7	3	1.0 mg/ m <sup>3</sup> as Zinc Chloride

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

<b>BOILING POINT:</b>	242°F (116°C)	<b>VAPOR PRESSURE (mm/Hg):</b>	20
<b>MELTING POINT:</b>	N/ A	<b>VAPOR DENSITY (air = 1):</b>	Similar to H <sub>2</sub> O
<b>SPECIFIC GRAVITY:</b>	1.46	<b>REACTIVITY IN WATER:</b>	N/ A
<b>SOLUBILITY IN WATER:</b>	Soluble	<b>EVAPORATION RATE:</b>	
<b>APPEARANCE AND ODOR:</b>	Green or brownish	clear liquid, slight proprietary odor.	
<b>PERCENT VOLATILE BY VOLUME:</b>		Proprietary	

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

<b>FLASH POINT:</b>	N/ A		
<b>FLAMMABLE LIMITS:</b>	N/ A	<b>LEL: Not Established</b>	<b>UEL: Not Established</b>
<b>EXTINGUISHER MEDIA:</b>	Any means suitable to fight surrounding fire (water, CO <sub>2</sub> , or dry chemicals).		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Wear self- contained breathing apparatus.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Toxic fumes may be generated at elevated temperatures.		

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

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

Stable: Yes                      Unstable:  
N/A  
Oxidizers.  
Oxides of sulfur and nitrogen.  
None

**SECTION VI****HEALTH HAZARDS**

**A. EXPOSURE LIMITS:**  
1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED  
2. Threshold Limit Value (TLV): 1 mg/ m3 Vapor/8 hrs for Phosphoric Acid  
1 mg/ m3 as Zinc Chloride  
**B. CARCINOGEN OR POTENTIAL CARCINOGEN:**  
1. NPT: NO  
2. IARC: NO  
3. OSHA: NO  
**C. EFFECTS OF OVEREXPOSURE:**  
1. **ACUTE:**  
**EYES:** N/A  
**SKIN:** N/A  
**INHALATION:** N/A  
**INGESTION:** N/A  
**D. EMERGENCY FIRST AID PROCEDURES:**  
**EYES:** IMMEDIATELY flush with a directed stream of water for at least 15 minutes forcibly holding eyelids apart to ensure complete irritation of all eye and lid tissue.  
**SKIN:** Wash with soap and water. Wash clothing before reuse. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.  
**INHALATION:** If symptoms develop, move persons out of contaminated area to fresh air.  
**INGESTION:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water, then induce vomiting by having patient tickle back of throat with finger. Keep airways clear. GET MEDICAL ATTENTION IMMEDIATELY.  
**E. ANIMAL TOXICITY DATA:**Zinc Chloride LD50 (oral/ rat) 350 mg/ Kg  
Phosphoric Acid LD50 (oral/ rat) 1.53 mg/ Kg

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

**HANDLING AND STORAGE:**Keep containers closed and dry. Wash hands thoroughly after using. Normal warehouse storage for containers is satisfactory. For bulk storage, use tanks made of HDPE or stainless steel. Avoid aluminum, copper or brass in tanks, lines, or pumps. Product will freeze below 32°F.  
**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.  
**WASTE DISPOSAL METHODS:** Dispose of in compliance with all federal, state and local laws concerning health and environment.

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

**RESPIRATORY PROTECTION:** As required by conditions. Use and OSHA or NIOSH approved respirator if required.  
**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.  
**LOCAL EXHAUST:** N/A  
**SPECIAL VENTILATION:** N/A  
**PROTECTIVE GLOVES:** N/A  
**WORK/ HYGIENIC PRACTICES:** N/A

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

This product has not been tested for environmental effects. If discharged into the marine environment it may be toxic to fish or other marine organisms, and due to its nutrient value may contribute to eutrophication in bodies of water. The available data on the raw materials does not indicate any undue hazard to the environment under anticipated conditions of storage and use.

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

**PLACARD:** CORROSIVE

**USDOT Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

(Contains Phosphoric Acid and Zinc Chloride)

8, UN1760, III

**IATA Proper Shipping Name:** UN1760, CORROSIVE LIQUID, N.O.S.

(Contains Phosphoric Acid and Zinc Chloride)

8, III

**IMO Proper Shipping Name:** UN1760, CORROSIVE LIQUID, N.O.S.

(Contains Phosphoric Acid and Zinc Chloride)

CLASS 8, PG III

**DOT Hazardous Material:** 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.