

GAIN™

Material Safety Data Sheet (rev.01/05)

SECTION I
PRODUCT IDENTIFICATION

A. NFPA HAZARD RATINGS			
HEALTH HAZARD 1		FIRE HAZARD 0	
REACTIVITY 0			
SARA/ TITLE III HAZARD CATEGORIES			
Immediate (ACUTE) Health: none		Reactive Hazard: none	
Delayed (Chronic) Health: not known		Fire Hazard: none	
Sudden Release of Pressure: none			
Company Name:		STOLLER USA, INC.	
Address:		4001 W. Sam Houston Pkwy 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:		metallic oxides and sulfates	
Chemical Name & Synonyms:		chelated micronutrient solution	
Formula:		See SECTION II COMPOSITION/ INGREDIENTS INFORMATION	
Trade name & Synonyms:		GAIN	

SECTION II
PHYSICAL AND CHEMICAL CHARACTERISTICS

INGREDIENTS:	CAS#	Approx. %	TLV
Zinc Oxide	1314-13-2	>5	1 mg/ m ³ as Zn
Manganese Oxide	1344-43-0	>5	1 mg/ m ³ as Mn
Tri- Basic Copper Sulfate	1332-14-5	>5	1 mg/ m ³ as Cu

SECTION III
PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	248°F (120°C)	VAPOR PRESSURE (mm/ Hg):	
MELTING POINT:	N/ A	VAPOR DENSITY (air = 1):	2.1
SPECIFIC GRAVITY:	1.18	REACTIVITY IN WATER:	N/ A
SOLUBILITY IN WATER:	100%	EVAPORATION RATE:	0.1
APPEARANCE AND ODOR:	clear dark blue solution, slight pleasant odor.		
PERCENT VOLATILE BY VOLUME:	N/ A		
pH:	N/ A		
MOLECULAR WEIGHT:	N/ A		

SECTION IV
FIRE AND EXPLOSION DATA

FLASH POINT:	NOT ESTABLISHED		
FLAMMABLE LIMITS:	NOT ESTABLISHED	LEL: NOT ESTABLISHED	UEL: NOT ESTABLISHED
EXTINGUISHER MEDIA:	Product is NON- FLAMMABLE. Use extinguisher media suitable to fight surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES:	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Toxic fumes may be generated under fire conditions.		
AUTOIGNITION TEMPERATURE:	Not applicable (N/ A)		

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:
Stable under normal conditions.
Not established. As a precaution avoid strong oxidizers.
None
WILL NOT OCCUR

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
4. ACGIH: N/ A
- C. EFFECTS OF OVEREXPOSURE:**
1. **ACUTE:**
EYES: May be irritating.
SKIN: May irritate skin with extended exposure.
INHALATION: May cause irritation of upper respiratory tract, nausea, and dizziness.
INGESTION: May cause diarrhea, vomiting and stomach pain, even death if large amounts are ingested.
- D. EMERGENCY FIRST AID PROCEDURES:**
EYES: Flush with clean running water for at least 15 minutes.
SKIN: Wash with soap and water; remove contaminated clothing.
INHALATION: Remove person to fresh air and get medical attention if victim does not react.
INGESTION: Give large amount of milk or water to induce vomiting. Get medical attention immediately.
- E. ANIMAL TOXICITY DATA:**
Oral LD₅₀ (rat): Not yet obtained
Dermal LD₅₀ (rabbit): Not yet obtained

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

HANDLING AND STORAGE: Keep containers closed and dry, away from food, feed and clothing.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Prevent material from entering sewers or waterways. Recover as much as possible, then use absorbent inert to collect the remaining residues and put material in covered labeled containers, disposing of it as a solid waste.

WASTE DISPOSAL METHODS: Follow all applicable Federal, State and Local regulations.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

RESPIRATORY PROTECTION: Wear a NIOSH / OSHA approved respirator if working conditions require to do so.

LOCAL EXHAUST: Provide general or local exhaust ventilation should working conditions require additional ventilation

SPECIAL VENTILATION: Not necessary if working in open spaces or normally well- ventilated area.

PROTECTIVE GLOVES: Wear protective gloves impervious to this material.

EYE PROTECTION: Use of chemical goggles when there is any likelihood of splashes is a recommended practice.

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. To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details. May be harmful to fish if disposed indiscriminately into the marine environment.

SECTION X**TRANSPORTATION DATA**

DOT HAZARD CLASS: Non- Hazardous Material. Non- Regulated Material

PLACARD: N/ A

USDOT Proper Shipping Name: Not Applicable (Trade name: GAIN)

IATA Proper Shipping Name: N/ A

IMO Proper Shipping Name: N/ A

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