

WHITE LABEL™ Manganese

Material Safety Data Sheet (rev.01/05)

SECTION I PRODUCT IDENTIFICATION

	NFPA HAZARD RATINGS
HEALTH HAZARD 1	FIRE HAZARD 0 REACTIVITY 0
SARA/ TITLE III HAZARD CATEGORIES (See Section IX)	
Immediate (ACUTE) Health: Yes	Reactive Hazard: None
Delayed (Chronic) Health: None	Fire Hazard: None Sudden Release of Pressure: not applic
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 acid with manganese.
Chemical Name & Synonyms:	Liquid fertilizer containing manganese and sulfur.
Formula:	Proprietary
Trade name & Synonyms:	WHITE LABEL™ MANGANESE (4% S, 5% Mn)

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

INGREDIENTS:	CAS#	Approx. %	TLV
Manganese Sulfate	10034-96-5	18	N/ E
Lignosulfonic Acid, Sodium Salf	68512-34-5	5 - 10	
INGREDIENTS:	RTECS No.	Haz- Mat	
Manganese Sulfate		N/ E	

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	220°F (104°C)	VAPOR PRESSURE (mm/ Hg):	
MELTING POINT:	N/ A	VAPOR DENSITY (air = 1):	2.1
SPECIFIC GRAVITY:	1.2	REACTIVITY IN WATER:	N/ A
SOLUBILITY IN WATER:	100%	EVAPORATION RATE:	0.1
APPEARANCE AND ODOR:	Dark brown solution, characteristic mild odor.		
PERCENT VOLATILE BY VOLUME:		N/ A	

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT:	NOT ESTABLISHED	LEL:	UEL:
FLAMMABLE LIMITS:	NOT ESTABLISHED		
EXTINGUISHER MEDIA:	Use any means suitable to fight surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES:	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE		

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

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

Stable: Yes Unstable:
Stable under normal conditions.
Strong oxidizing agents.
Sulfur dioxide, 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:**
- 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, irritation, 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 unless treated promptly.
2. **CHRONIC:** Not known.
- 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 and immediately wash affected area with soap and water for 15 minutes. Do not apply greases or ointments. Launder contaminated clothing.
INHALATION: Move patient to fresh air. Supplemental oxygen may be indicated if patient has difficulty breathing. Assure mucous does not obstruct airway. Call a physician immediately. Do not induce vomiting.
INGESTION: If swallowed, call a physician immediately. Do not induce vomiting..
- E. ANIMAL TOXICITY DATA:**Note to physician: symptomatic treatment.
- F. ADDITIONAL INFORMATION:**Manganese sulfate LD50 (oral/ mouse) 980 mg/ kg.

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

- HANDLING AND STORAGE:**Keep containers closed and away from oxidizing agents. Store only in shipping container: Bulk material can be stored in polyethylene, aluminum or stainless steel tanks.
- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** It is necessary to contain spill into the smallest area possible by diking, enclosing, etc.; replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be put in covered labeled containers and dispose of as a dry waste.
- WASTE DISPOSAL METHODS:** Follow all applicable federal, state and local regulations regarding liquid fertilizers.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

- RESPIRATORY PROTECTION:** Not specifically required. Use of a NIOSH/ OSHA approved respirator is suggested.
- LOCAL EXHAUST:** Provide general or local exhaust ventilation.
- SPECIAL VENTILATION:** Not applicable.
- PROTECTIVE GLOVES:** Wear protective gloves and clothing impervious to this material.
- OTHER SPECIAL CLOTHING/ EQUIPMENT:** Eye wash fountain should be located in immediate work area.
- WORK/ HYGIENIC PRACTICES:** Wash hands thoroughly after using product.

SECTION IX**ENVIRONMENTAL EFFECTS DATA**

No environmental impact studies have been performed with this product. The available data on the ingredients of this plant nutrient product 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 (see above under Waste Disposal Methods). Due to its nutrient value, may contribute to eutrophication in bodies of water.

SECTION X**TRANSPORTATION DATA**

PROPER SHIPPING NAME: Not Applicable (WHITE LABEL™ MANGANESE)

DOT HAZARD CLASS: Not - Regulated Material; Non - Hazardous 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 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.