# MATERIAL SAFETY DATA SHEET

NEXUS LIQUI	D MANGANESE 7.5%	Page 1 of 4		Issue D	ate: 4/10
SECTION 1.	PRODUCT AND C	OMPANY IDENTIFIC	ATION		
Common Nam Chemical Dese TSCA/CAS No <u>Manufactured</u> NEXUS Ag Bu	D MANGANESE 7.5% ne: Fertilizing com cription: Manganese ligr .: This product is <u>For</u> siness, Inc.	pound, liquid. nosulfonate complex, a a mixture — there is r	-		
105-3502 Tay Saskatoon, SK					
Emergency Ph		2972 EVES: (80	0) 373-2972		
SECTION 2.	HAZARDOUS INC	GREDIENTS			
CHEMICAL		CAS NO.	%	TLV OR PEL	RQ (lbs)
None.					
SECTION 3.	emergency/haz	ARDS OVERVIEW			
	scous liquid with slight lign os and/or nausea. High tem terial.		-		
HEALTH	-	0 FLAMMA Slight 2=Moderate	BILITY: 0 3=High 4=	ENVIRONMENT Extreme)	: 1
SECTION 4.	FIRST AID				
Eyes:	Flush immediately with wa persists.	ater for at least 15 min	utes. Call a pl	nysician if eye irritatio	on
Skin:	Wash thoroughly with soar reuse. See a physician if s		contaminated	clothing and wash b	efore
Ingestion:	If conscious and alert, drin or Poison Control Center in		ite, then induc	e vomiting. Call a pl	nysician
Inhalation:	Move to fresh air. If breath	ning becomes difficult,	call a physici	an.	

SECTION 5.

FIRE AND EXPLOSION HAZARDS

#### Flash Point: $> 200^{\circ}$ F. Test Method: ASTM D-56. **LEL Flammable Limits:** Not pertinent. **UEL Flammable Limits:** Not pertinent. Autoignition Temperature: Not pertinent. Flammability Classification: Noncombustible. Known Hazardous Products of Combustion: Thermal degradation at > 575 °C (1067 °F) may produce sulfur trioxide. Properties that Initiate/Contribute to Intensity of Fire: None. Potential For Dust Explosion: None. Reactions that Release Flammable Gases or Vapors: Not known. Potential For Release of Flammable Vapors: None. **Unusual Fire & Explosion Hazards:** None. **Extinguishing Media:** Not pertinent. **Special Firefighting Procedures:** Wear positive pressure, self-contained breathing apparatus and goggles. Contain any liquid runoff.

SECTION 6.SPILLS AND LEAKSContainment:Prevent product spillage from entering drinking water supplies or streams.Clean Up:Collect liquid or absorb onto absorbent material and package for disposal.Evacuation:Not necessary.

SECTION 7.	STORAGE AND HANDLING
Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40oF. Do not store in contact with brass. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practic	es: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

### Page 3 of 4

#### SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:
Odor:
pH:
Vapor Pressure:
Vapor Density (Air = 1):
Boiling Point:
Freezing Point:
Water Solubility:
Density:
Evaporation Rate:
Viscosity:
% Volatile:
Octanol/Water Partition Coefficient:
Saturated Vapor Concentration:

# Dark brown, viscous liquid. Slight lignin odor. 5.5 760 mm Hg. < 1.0 $100^{\circ}C$ (212°F) Not available. Completely miscible. 10.7 lbs./gal. Same as water. Not available. Not available. Not available. Not available.

#### SECTION 10. STABILITY AND REACTIVITY Stability: Stable. Conditions To Avoid: None known. Incompatibility: Contact with brass or strong oxidizing agents. Hazardous Decomposition Products: Thermal degradation at high temperatures above 575°C (1067°F) may produce sulfur trioxide. Will not occur.

## Hazardous Polymerization:

SECTION 11.	POTENTIAL HEALTH EFFECTS
Acute Effects:	
Eyes:	Mild irritant. May cause redness.
Skin:	Mild irritant, especially from prolonged exposure. May cause redness.
Ingestion:	May cause stomach cramps and/or nausea.
Inhalation:	None expected but inhalation of aerosol mist may cause mild irritation of nasal

mucous membranes. Subchronic Effects: None known. Chronic Effects: None known.

#### SECTION 12. ECOLOGICAL INFORMATION Algal/Lemna Growth Inhibition Not known.

/ligal/Lennia Growth Infinition.	NOT KHOWH.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14.	TRANSPORTATION	
D.O.T.:		Not D.O.T. Regulated.
Other Shipping De	scription:	Fertilizing Compounds (Manufactured), Liquid.
		NMFC Item 68140 Sub 6, LTL Class 70)

# SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: Manganese Sulfate (19.25%).

<u>PROPOSITION 65 (CA)</u>: Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OT	THER
----------------	------

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. NEXUS Ag Business, Inc. does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which NEXUS Ag Business, Inc. assumes legal responsibility.