13. DISPOSAL CONSIDERATIONS WASTE RESIDUE Triple rinse container, add rinsate to spray tank. Refer to manufacturer or supplier for information on con-AND CONTAMINATED tainer recovery or recycling. Dispose of packaging in a manner consistent with federal, state and local reg-**PACKAGING DISPOSAL** 14. TRANSPORTATION INFORMATION **US DOT TRANSPORT** Corrosive liquid, acidic, inorganic, LABELS & **HAZARD CLASS** PLACARDS REn.o.s. QUIRED

3264

UN NUMBER 3264 **PACKING GROUP** Ш

MARINE POLLUTANT Manganese Sulfate MP

15. REGULATORY INFORMATION

(Citric Acid)

RQ 230 lbs.

(Manganese Sulfate MP)

CA PROP. 65	This product does not contain any chemicals known to state of California to cause cancer and birth defects or other reproductive harm.
TSCA / CAA / CWA/	BO 220 lbo

CERCLA

SARA TITLE III

This product contains the following toxic chemical material(s) with known CAS numbers subject to reporting requirements established by SARA Title III

SARA Section 311/312 Hazard Categories		SARA Section 313,	SARA Section 302, section 304		
Pressure	No	Component	CAS#	302 EHS TPQ	304 EHS RQ
Reactivity:	No	None	Proprietary	Not Listed	Not Listed
Immediate (Acute):	Yes				
Delayed (Chronic):	No				
Fire:	No				

INTERNATIONAL REGULATIONS

CANADA: WHMIS Not Available.

DSL/NDSL: Not Listed

16. OTHER INFORMATION

ISSUE DATE January 12,2016 **SUPERCEDES** All previous versions

Revised: 6/15/2016



The information contained herein is accurate to the best of our knowledge. Bio-Gro, Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Chemical additions, processing, or otherwise altering this material may make information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. All Rights Reserved.

BioGro, Inc.	SAFETY DATA SH	IEET CHB Manganese 5%
1. IDENTIFICATION		
MANUFACTURER/ OR SUPPLIER'S NA Bio-Gro, Inc.	AME	TELEPHONE NO./ AFTER HOURS EMERGENCY (509) 894-4110 / (800) 738-7457
MAILING ADDRESS PO Box 326 Mabton WA 98		MANUFACTURING ADDRESS 681 Glade Rd / Mabton WA 98935
PRODUCT NAME CHB Manganese 5%		WEBSITE www.BioGro.com
CHEMICAL FAMILY, SYNONYMS AND Manganese Sulfate	TRADE NAMES	RECOMMENDED USE OR RESTRICTIONS OF THE CHEMICAL Agricultural Mineral/Fertilizer

2. HAZARD(S) IDENTIFICATION

SIGNAL WORD
WARNING

SYMBOL(S)



HAZARD STATEMENT

H315: Cause skin irritation. H319: Causes serious eye irritation.

PRECAUTION STATEMENT

Wear protective gloves/protective clothing/eye protection.

Do not handle until all safety precautions have been read and understood.

Do not taste or swallow.

3. MIXTURE COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	BY WEIGHT	HAZARD DATA
Proprietary solution containing Sulfur (S) 2.5%, Manganese (Mn) 5.0% derived from Man- ganese Sulfate.		100%	See Section 2

4. FIRST-AID MEASURES

4. I INOTAID MEAGONEG					
EYE CONTACT	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists.				
SKIN CONTACT	Wash with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice.				
INHALATION	Remove person to fresh air and keep comfortable for breathing. Seek medical attention. If not breathing, give artificial respiration if trained to do so.				
INGESTION	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a POI-SON CENTER or seek medical attention.				

5. FIRE-FIGH	ITING MEASURES
EXTINGUISHING MEDIA	Use extinguishing media suitable for surrounding materials to extinguish fire.
HAZARDOUS PRODUCTS OF COMBUSTION	Hazardous products of combustion could include nitrogen oxides.
FIRE FIGHTING PRECAUTIONS	The use of self-contained breathing apparatus (SCBA) and full protective clothing is recommended for fire-fighters for chemical fires. Dike and collect water used to fight fire for later treatment and disposal.
6. ACCIDEN	TAL RELEASE MEASURES
PERSONAL PRE- CAUTION	Observe personal protective equipment in Section 8. Keep unnecessary and unprotected personnel from entering.
CONTAINMENT AND CLEANUP	Contain spill with dry earth or sand. Collect spillage and place material in a suitable container for disposal. See Section 13. Do not flush into local waterways, drains, or potable water source.
ENVIRONMENTAL PRECAUTIONS	Large amounts of Boron can be harmful to plants and other species. It should only be used as part of an overall agricultural mineral program that is based on recommendations from soil and tissue analysis.
7. HANDLIN	G AND STORAGE
HANDLING	Wear personal protective equipment (PPE section 8). Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Do not eat, drink or smoke when using. Wash thoroughly with soap and water after handling. Wash PPE after use with this product.
STORAGE	Store in original packaging. Keep upright. Store out of direct sunlight in a well ventilated area. Do not overheat. Do not store below freezing. Store away from incompatible materials (see section 10). Maintain air gap.
	Keep away from children, feed and food products.
8. EXPOSUR	RE CONTROLS/ PERSONAL PROTECTION
ENGINEERING	Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.
CONTROLS	Practice good industrial hygiene and safety standards. Do not eat, drink or smoke in work areas. Use in accordance with the agricultural worker protection standard, CFR Part 170. Do not apply this product in a way that will contaminate workers or other persons.
EYE/FACE PROTECTION	Wear appropriate protective eyeglasses with side-shield or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
SKIN PROTECTION	Avoid skin contact by wearing chemical resistant gloves, long sleeves and long pants, coveralls, socks, and boots. Wear appropriate clothing to prevent skin exposure. The type of protective equipment used should be equivalent to the concentration of the hazardous material.
	Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.
RESPIRATORY PROTECTION	Wear respiratory protection during operations where spraying or misting occurs. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND		nkish liquid	ODOR		Not Available
-		.176 Kg/l at 68° F		I WEIGHT	
SPECIFIC GRAVITY (H20=1)		.5-2.0		RESHOLD	9.8 lbs / gal Not Available
pH				ATION RATE	Not Available Not Available
FREEZING POINT		lot Available Lot Available			
FLASHPOINT				PRESSURE	Not Available
AUTO-INGNITION TEMP		lot Available		DENSITY (AIR = 1)	Not Available
BOILING POINT, 760 MM		lot Available	SOLUBIL		Not Available
MELTING POINT		lot Available	% VOLAT	LWATER PARTITION	Not Available
FLAMMABILITY LIMITS		lot Available	COEFFIC	IENT	Not Available
			and not intended t	o be a guaranteed analy	sis of specification of any specific lot.
10. STABILITY	AND	REACTIVITY			
INCOMAPTIBILE MATERIALS / STABILITY	Stability: Stable under recommended transport and storage conditions. Incompatibility: None Materials to Avoid: None known.				
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	No hazardous reactions known to occur under normal use conditions. No hazardous decomposition products are known to occur.				
CONDITIONS TO AVOID	Unknown. See section 7 for storage information.				
11. TOXICOLO	OGICA	L INFORMATI	ON		
ACUTE TOXICITY VALUES	Acute Oral LD50 (Rat): No Data Available Acute Dermal LD50 (Rabbit): No Data Available Acute Inhalation LC50 (Rat): No Data Available				
ROUTES OF EXPOSURE	Skin and eye contact, inhalation, ingestion.				
SIGNS AND SYMPTOMS OF OVEREXPOSURE	Short term effects: No Data Available Long term effects: No Data Available				
CHRONIC EFFECTS CARCINOGENICITY	Not considered a carcinogen by IARC, NTP, or OSHA.				
SPECIFIC TARGET ORGAN TOXICITY	Reproductive/developmental toxicity: No Data Available				

12. ECOLOGICAL INFORMATION

ECOTOXICTY	No data available	MOBILITY IN SOIL	No data available
		BIOACCUMULATIVE POTENTIAL	No data available
PERSTISTANCE & DEGRADABILITY	No data available		