## **SAFETY DATA SHEET**

Soar Peanut Mix Date Prepared: 11/17/2014 Replaces: All Previous

## **SECTION 1. IDENTIFICATION**

Product Name: Soar Peanut Mix

Synonyms: SOARPEA

Use: Agricultural, Liquid Micronutrient Fertilizer

Manufacturer: Chemical Dynamics, Inc.

4206 Business Lane Plant City FL 33566

Phone: 813-752-4950 Chemtrec (Emergency) Phone: 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION				
Pictogram	Signal Word	Hazard Class	Hazard Category	Hazard Statement
	WARNING	STOT: repeat exposure	Cat 2	May cause damage to central nervous system through prolonged or repeat exposure
Precautionary	Prevention: Do	not breathe vapors, mists	or sprays. Wash tho	roughly after handling.
Statements:	Use only outdoors or in a well-ventilated area.			
	Response: Get medical attention/advice if you feel unwell.			
	<b>Disposal</b> : Dispose of contents/containers in accordance with local/regional/national regulations (See Section 13 of SDS).			

SECTION 3. COMPOSITION				
Material	CAS #	EINECS #	%WT	
Manganese Glucoheptonate	12565-60-5	Not Assigned	Withheld	
Zinc Glucoheptonate	12565-63-8	Not Assigned	Withheld	
Iron Glucoheptonate	25126-38-9	Not Assigned	Withheld	

The chemical identities and/or exact composition of this product are being withheld as a Trade Secret, are below de minimus cut off limits or are not classified as hazardous.

See product label for guaranteed analysis.

	SECTION 4. FIRST AID MEASURES
General:	In case of persisting adverse effects consult a physician. Treat symptomatically.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person.
Skin Contact:	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water.
Inhalation:	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
Acute Exposure	May cause slight, transient irritation of eyes and skin. Ingestion may be irritating to
Symptoms:	the gastrointestinal tract.
Chronic Exposure	Prolonged skin contact may result in dermatitis (inflammation and redness of skin).
Symptoms:	Manganese may lead to neurotoxicity that resembles Parkinson disease. These
	patients may have bradykinesia, resting tremor, psychiatric disturbances, and shuffling gait.

	SECTION 5. FIRE FIGHTING MEASURES
Extinguishing	Water spray is recommended. Halon, foam, dry chemical, CO2 or any ABC class
Media:	extinguisher are acceptable. Use extinguishing agent most appropriate to
	surrounding materials. Cool containers with water spray to avoid rupture due to
	thermal expansion.
Specific Hazards:	This product is an aqueous mixture which will not burn. In a fire this material may
	decompose and produce acrid vapors, manganese, iron, magnesium, zinc and
	boron compounds, sulfur oxides and carbon oxides.
Protective	Wear self-contained breathing apparatus (SCBA) and full protective gear. Avoid
Equipment and	inhaling combustion products.
Precautions for	Fire run-off should be contained to prevent possible environmental damage.
Fire-Fighters:	
NFPA Rating:	Health: 0, Fire: 0, Reactivity: 0

	SECTION 6. ACCIDENTAL RELEASE MEASURES
Precautions:	Isolate area. Keep unnecessary personnel away. Avoid splashing or spraying.
Protective	Impervious gloves (rubber, neoprene or nitrile), Long sleeved clothing.
Equipment:	Chemical splash-proof goggles.
	Chemical resistant apron and/or rubber boots may be needed.
Containment:	Stop flow of material if safe to do so. Dike area with diatomaceous earth or sand
	and maximize recovery.
Clean Up:	Pump into a suitable tank or absorb with diatomaceous earth or sand. Sweep up
	and place into suitable containers for agronomical land application at
	recommended label rates or dispose of in accordance with local/regional/national
	regulations (See Section 13 of SDS).

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	SECTION 7.	. HANDLING AND !	STORAGE	
Precautions for safe handling:	Avoid contact with skin and eyes. Do not breathe sprays, vapors or mists. Do not eat, drink or use tobacco products when handling this material. Apply product in open areas. Keep away from children and pets. Do not contaminate feed, seed or any water sources. Launder work clothes frequently and separate from other laundry.			
Conditions for safe storage:  Incompatibilities:	sunlight, sources of into go below 32°F. Inspect	Store in original containers in a well-ventilated, cool, dry place, away from direct sunlight, sources of intense heat, or where freezing is possible. Do not let product go below 32°F. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.		
incompatibilities.				
	SECTION 8. EXPOSURE			
Component Exposure Limits:	Manganese Glucoheptonate	5 mg/m <sup>3</sup> Not Established 0.2 mg/m <sup>3</sup>	PEL, OSHA (as Mn compounds) STEL, OSHA TIV ACCILI (as Mn compounds)	
		500 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	TLV, ACGIH (as Mn compounds) IDLH, NIOSH (as Mn) TWA, NIOSH (as Mn)	
	Iron Glucoheptonate	3 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	STEL, NIOSH (as Mn) PEL, OSHA (Iron Soluble Salts, as Fe)	
		1 mg/m <sup>3</sup> Not Established 1 mg/m <sup>3</sup> Not Established	TWA, ACGIH (Iron Soluble Salts, as Fe) IDLH, NIOSH REL, NIOSH (Iron Soluble Salts, as Fe) STEL, NIOSH	
	All other components in product	Not Established Not Established Not Established Not Established Not Established	PEL, OSHA TWA, ACGIH IDLH, NIOSH REL, NIOSH	
Engineering Controls:	Provide local exhaust v		STEL, NIOSH sh facilities.	
Personal Protective	Eyes: Chemical splash-proof goggles (where splashing is possible)  Skin: Impervious gloves (rubber, neoprene or nitrile), long sleeved clothing.			
Equipment:	Chemically resistant apron is recommended.  Respiratory: None required for ambient air concentrations (i.e. in the open under normal agronomic conditions) not exceeding occupational exposure limits.  Respiratory protection may be required in the event of a spill in an enclosed area.  Use a NIOSH/MSHA approved SCBA with full face piece operated in a positive pressure mode.			
General:	Eye wash stations and	safety shower reco	ommended.	

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Dark, Opaque liquid		
Odor:	Slight sweet odor	UEL / LEL:	Not Applicable
Odor Threshold:	Not Available	Vapor Pressure:	Similar to water
pH:	4.7 to 5.1	Density:	1.25 to 1.28 g/cm <sup>3</sup>
Melting/Freezing Point:	< 0°C (32°F)	Solubility:	Water
<b>Boiling Point:</b>	> 100°C (212°F)	Log <sub>ow</sub> :	Not Available
Flash Point:	Not Applicable	Auto Ignition Temp:	Not Applicable
<b>Evaporation Rate:</b>	Similar to water	Decomposition Temp:	Not Available
Flammability (Solid/Gas):	Not Applicable	Viscosity	Not Available

	SECTION 10. STABILITY AND REACTIVITY	
Reactivity:	Stable	
Chemical Stability:	Stable under normal conditions	
Possibility of Hazardous	Hazardous polymerization will not occur.	
Reactions:		
Conditions to avoid:	Avoid exposure to extreme temperatures, contact with incompatible	
	chemicals. Elevated temperatures may cause containers to rupture. Cold	
	temperatures may cause product to salt out.	
Incompatible Materials:	Water reactive materials, strong oxidizers.	
Hazardous	Manganese, iron, magnesium, zinc and boron compounds, sulfur oxides and	
<b>Decomposition Products:</b>	carbon oxides.	

	SECTION 11. TOXILOGICAL INFORMATION
Acute Toxicity:	Manganese Glucoheptonate:  LD50 oral (rat): Not available, but for an analog manganese compound: LD50 oral (rat) >5000 mg/kg  Iron Glucoheptonate and all other components in this product:  LD50 oral (rat): >2000 mg/kg
Likely Routes of Exposure:	Inhalation, ingestion or skin absorption
Symptoms and Signs of Exposure:	Eyes: May cause mild irritation. May result in redness, tearing and blurred vision.  Skin: Ma cause mild irritation to the skin. May result in redness, itching and pain.  Ingestion: May cause digestive tract irritation, with accompanying nausea, vomiting and diarrhea.  Inhalation of mist may irritate or burn nose, throat and lungs. Coughing, nausea, headaches and weakness are possible.  Effects are expected to be transient.

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Chronic Effects:	Prolonged skin contact may result in dermatitis (inflammation and redness of skin.  Manganese may lead to neurotoxicity that resembles Parkinson disease.  These patients may have bradykinesia, resting tremor, psychiatric disturbances, and shuffling gait. Also, chronic excess manganese inhalational exposures may lead to pulmonary inflammation and subsequent reactive airway disease.
Carcinogenetic:	None of this product's components are listed by IARC, ACGIH, OSHA, NIOSH or NTP as carcinogenic.
Mutagenicity:	Not Available
Reproductive Toxicity:	Not Available

	SECTION 12. ECOLOGICAL INFORMATION		
Ecotoxicity:	In high concentrations, this product may be harmful to both terrestrial and		
	aquatic plant or animal life.		
Other Adverse Effects:	Not harmful to ozone layer		
Ecotoxicity:	Manganese Glucoheptonate: Not Available. However, for analogous,		
	derived from water soluble manganese compound:		
	LC50 Daphnia magna (Water Flea): 15200 ug/L/48 hr; static		
	LC50 Canthocamptus sp (Harpacticoid Copepod): 150 ug/L/48 hr;		
	static		
	LC50 Pimephales promelas (Fathead Minnow): 30600 ug/L/96 hr;		
	flow through		
	Iron Glucoheptonate, Zinc Glucoheptonate and all other components of		
	product: Not Available		

SECTION 13. DISPOSAL CONSIDERATIONS		
General Information:	None	
Disposal Instructions:	Agronomical land application at recommended rates or dispose of in accordance with local/regional/national regulations. Containers may be	
	triple rinsed and offered for recycling.	

SECTION 14. TRANSPORT INFORMATION		
This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation		
<b>Proper Shipping Name:</b>	Not Applicable	
Hazard Class:	Not Applicable	
UN Identification #:	Not Applicable	
Packing Group:	Not Applicable	
Required Label(s):	Not Applicable	
<b>Emergency Response</b>	Not Applicable	
Guide Number:		
Marine Pollutant:	Yes (Manganese)	

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SECTION 15. REGULATORY INFORMATION	
TSCA Inventory Status	All intentional ingredients listed on the TSCA inventory.
DSCL (EEC) Status	All intentional ingredients listed on the DSCL inventory.
United States – SARA Hazard Category:	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:  Fire – No, Pressure – No, Acute – No, Chronic – Yes, Reactive – No
SARA Title III	This product contains the following substances subject to the reporting
Information:	This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Manganese and Zinc	CERCLA RQ (pounds): No RQ is assigned to this generic or broad class,
Glucoheptonates	(Manganese and Zinc compounds) although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985).  SARA Reporting, 302: No  SARA Reporting, 304: No
	SARA Reporting, 313: : Yes, 1.0% de minimus concentration (N450, Manganese Compounds and N982, Zinc Compounds)
Iron Glucoheptonate and	CERCLA RQ (pounds): No
all other components	SARA Reporting, 302: No
an other components	SARA Reporting, 304: No
	SARA Reporting, 313: No
Federal Insecticide,	This product is not a pesticide.
Fungicide, and Rodenticide Act	
State Regulations:	Other state regulations may apply. Check individual state requirements.
SECTION 16. OTHER INFORMATION	
Date of Revision:	11/17/2014, revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
Disclaimer:	The information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is based on data believed to be accurate and reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Because safety standards and regulations are subject to change and because Chemical Dynamics, Inc. has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. No warranty, expressed or implied, and no liability is assumed by Chemical Dynamics, Inc. in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents.

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