



# Safety Data Sheet

Issue Date: 01-May-2006

Revision Date: 11-Sep-2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Chem-Plex Peanut, Cotton, and Soybean Mix 2%Mg, 4%S, 3%Mn, 1%Zn

### Other means of identification

**SDS #** CNI-036

### Recommended use of the chemical and restrictions on use

**Recommended Use** Plant Nutrients.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

CNI AgriMinerals  
P.O. Box 3706  
Albany, GA 31706

### Emergency Telephone Number

**Company Phone Number** 1-229-883-5538 (Business)

1-229-439-0842 (fax)

**Emergency Telephone (24 hr)**

Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** Dark brown liquid

**Physical State** Liquid

**Odor** Earthy odor

### Classification

### Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

### Other Hazards

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Proprietary blend of Lignosulfonic acid, Sodium Salt & Micronutrient sulfates in an aqueous solution	Proprietary	100
Chelated Sulfur	Proprietary	4 (Included in the above blend)
Chelated Manganese	Proprietary	3 (Included in the above blend)
Chelated Magnesium	Proprietary	2 (Included in the above blend)
Chelated Zinc	Proprietary	1 (Included in the above blend)

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### First Aid Measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Remove contaminated clothing. Wash skin with soap and water. Wash clothing before reuse. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	Remove to fresh air. Seek medical attention if irritation develops or persists.
<b>Ingestion</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. If prompt medical attention is not available, call your local Poison Control Center.

#### Most important symptoms and effects

<b>Symptoms</b>	Direct contact with eyes may cause irritation or damage. Causes mild skin irritation. May cause irritation to the mucous membranes and upper respiratory tract. Ingestion may cause irritation of the gastrointestinal tract, cramps, vomiting or diarrhea. Existing skin and lung disorders may be aggravated by overexposure. Chronic ingestion may cause damage to heart, liver, and blood-forming tissues. Ingestion of large quantities may cause headache, mental impairment, dizziness, and may be fatal.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not release runoff from fire control methods to sewers or waterways.

**Unsuitable Extinguishing Media** Not determined.

#### Specific Hazards Arising from the Chemical

None.

**Hazardous Combustion Products** Metal oxide/oxides. Oxides of sulfur. Ammonia.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Personal Precautions**                      Use personal protective equipment as required.
- For Emergency Responders**            Follow applicable OSHA regulations (29 CFR 1910.120).
- Environmental Precautions**            Prevent runoff to sewers, streams, and other bodies of water. See Section 12 for additional Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

**Methods and material for containment and cleaning up**

- Methods for Containment**              Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of spill for later disposal.
- Methods for Clean-Up**                  For small spills, absorb with sand, clay, or other inert absorbent. For large spills contained material may be salvaged for use if uncontaminated. Clean up in accordance with all applicable regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on Safe Handling**                Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Use in accordance with product label instructions.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions**                    Store in closed, properly labeled containers in a cool, ventilated area. Keep away from children, pets, domestic animals, and wildlife. Store in compatible containers. Product may be corrosive to aluminum, mild steel and brass. Store in HDPE, fiberglass or stainless steel containers. Use only stainless steel, PVC or polypropylene fittings. Store away from incompatible materials.
- Packaging Materials**                  Do not reuse container. Empty containers should be triple rinsed and use the rinsate in product tank.
- Incompatible Materials**                Strong oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chelated Manganese	TWA: 0.02 mg/m <sup>3</sup> Mn TWA: 0.1 mg/m <sup>3</sup> Mn	(vacated) TWA: 1 mg/m <sup>3</sup> fume (vacated) STEL: 3 mg/m <sup>3</sup> fume (vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn

**Appropriate engineering controls**

- Engineering Controls**                    Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection** Chemical anti-splash safety goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.
  
- Skin and Body Protection** Wear chemically protective gloves to prevent skin contact. Wear protective clothing. Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Refer to 29 CFR 1910.138 for appropriate skin and body protection.
  
- Respiratory Protection** Respiratory protection suitable for ammonia vapors may be needed. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. **WARNING!** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
  
- General Hygiene Considerations** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<p><b>Physical State</b>  <b>Appearance</b>  <b>Color</b></p>	<p>Liquid                  Dark brown liquid                  Dark brown</p>	<p><b>Odor</b>  <b>Odor Threshold</b></p>	<p>Earthy odor                  Not determined</p>
<p><b><u>Property</u></b>                  pH                  Melting Point/Freezing Point                  Boiling Point/Boiling Range                  Flash Point                  Evaporation Rate                  Flammability (Solid, Gas)                  Upper Flammability Limits                  Lower Flammability Limit                  Vapor Pressure                  Vapor Density                  Specific Gravity                  Water Solubility                  Solubility in other solvents                  Partition Coefficient                  Auto-ignition Temperature                  Decomposition Temperature                  Kinematic Viscosity                  Dynamic Viscosity                  Explosive Properties                  Oxidizing Properties                  Additional Information</p>	<p><b><u>Values</u></b>                  Not determined                  &lt; 0 °C / &lt;32 °F                  94 °C / 202 °F                  Not available                  Not determined                  Liquid-not applicable                  Not available                  Not available                  Not available                  Not available                  Not available                  1.290-1.300                  Freely Soluble                  Not determined                  Not determined                  Not determined                  Not determined                  Not determined                  Not determined                  Not determined                  Not determined                  Volatile by volume &lt;1%</p>	<p><b><u>Remarks • Method</u></b></p> <p>(Water = 1)</p>	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children. Avoid evaporating to dryness.

### Incompatible Materials

Strong oxidizers.

### Hazardous Decomposition Products

Metal oxides. Sulfur oxides. Ammonia.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Causes mild skin irritation.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chelated Sulfur	> 3000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L ( Rat ) 4 h
Chelated Manganese	= 9 g/kg ( Rat )	-	-
Chelated Magnesium	= 230 mg/kg ( Rat )	-	-
Chelated Zinc	> 8,437 mg/kg (rat)	-	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Chelated Sulfur		866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static		
Chelated Zinc	0.11 - 0.271: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.09 - 0.125: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	2.16 - 3.05: 96 h Pimephales promelas mg/L LC50 flow-through 0.211 - 0.269: 96 h Pimephales promelas mg/L LC50 semi-static 2.66: 96 h Pimephales promelas mg/L LC50 static 30: 96 h Cyprinus carpio mg/L LC50 0.45: 96 h Cyprinus carpio mg/L LC50 semi-static 7.8: 96 h Cyprinus carpio mg/L LC50 static 3.5: 96 h Lepomis macrochirus mg/L LC50 static 0.24: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.59: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.41: 96 h Oncorhynchus mykiss mg/L LC50 static		0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Triple rinse empty container, then offer for recycling, reuse, or reconditioning.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Chelated Manganese	Ignitable powder
Chelated Zinc	Toxic

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG**  
**Marine Pollutant** This material may meet the definition of a marine pollutant

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary blend of Lignosulfonic acid, Sodium Salt & Micronutrient sulfates in an aqueous solution	Present	X		Present			X	Present	X	X
Chelated Sulfur	Present	X		Present			X	Present	X	X
Chelated Manganese	Present	X		Present			X	Present	X	X
Chelated Magnesium	Present	X		Present			X	Present	X	X
Chelated Zinc	Present	X		Present			X	Present	X	X

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Chelated Zinc	1000 lb		RQ 454 kg final RQ RQ 1000 lb final RQ

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Chelated Manganese -		3	1.0
Chelated Zinc -		1	1.0

**CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chelated Zinc		X	X	

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Chelated Sulfur	X	X	X
Chelated Manganese	X	X	X
Chelated Magnesium	X	X	X
Chelated Zinc	X	X	X



**16. OTHER INFORMATION**

**NFPA**

**Health Hazards**

**Flammability**

**Instability**

**Special Hazards**

Not determined

Not determined

Not determined

Not determined

**HMIS**

**Health Hazards**

**Flammability**

**Physical Hazards**

**Personal Protection**

Not determined

Not determined

Not determined

Not determined

**Issue Date:** 01-May-2006  
**Revision Date:** 11-Sep-2015  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**