

Date of Issue: 1/25/16

Version: 1.0

SECTION 1. IDENTIFICATION

Product Name: Chelated General Purpose Flower & Garden Nutritional Spray
Recommended Use: Chelated micronutrient mixture
Restrictions on Use: None
Company: Southern Agricultural Insecticides, Inc
P.O. Box 218
Palmetto, FL 34220
(941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)

SECTION 2. HAZARDS IDENTIFICATION**Classification of the Substance or Mixture****Label Elements****Pictograms****Signal Word**

Warning

Hazard Statements

May cause skin irritation
May cause serious eye irritation

Effects of Overexposure:

Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.

EYES: Contact with product may cause redness, mild to severe irritation
SKIN: May cause discomfort, skin irritation or rash.
INHALATION: Prolonged exposure to vapors may cause sore throat and headache, irritation of respiratory tract.
INGESTION: May cause malaise, nausea, stomachache, burning sensation in stomach. Large doses may cause gastrointestinal damage.

Precautionary Statements

Wash skin thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respirator conditions.

Unknown Acute Toxicity Not available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	% W	TLV
Sodium Lignosulfonate	8061-51-6	31	1 mg/m ³
Ferrous Sulfate, Heptahydrate	7782-63-0	26	1 mg/m ³

Name	CAS No.	% W	TLV
Manganese Sulfate Monohydrate	7785-87-7	13	(mist as Mn) 5 mg/m3
Zinc Sulfate, monohydrate	7446-19-7	6	10 mg/m3
Copper Sulfate pentahydrate	7758-99-8	10	N/A
Sulfuric Acid	7664-93-9	<1.00%	(mist) 1 mg/m3

SECTION 4. FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Skin Contact: Rinse immediately with plenty of soap water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Ingestion: Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water and be induced to vomiting. Never give anything by mouth to someone who is unconscious.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation. Causes skin irritation.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion may be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known

Fire Hazard: Not considered flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Not available

Firefighting Instructions: None specific for this product, however, it is suggested that firefighters wear self-contained breathing apparatus and full protective equipment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: May emit toxic smoke and vapors if heated to decomposition.

Other information: Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (dust, vapor, mist, gas).

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

Environmental Precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment:	Dike and absorb spill. Shovel into an approved waste container. Wash impervious surfaces with soap and water.
Methods for Cleaning Up:	If possible, recover and use according to label instructions. Otherwise dispose of in accordance with local, state and federal regulations.
Reference to Other Sections	See Heading 8. Exposure controls and personal protection.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Good housekeeping is needed during storage, transfer, handling, and use of this material.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of reach of children

Incompatible Materials: Avoid areas of extreme heat. Do not store near strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment:	Protective goggles. Gloves. Protective clothing.
Materials for Protective Clothing:	Chemically resistant materials and fabrics.
Hand Protection:	Wear chemically resistant protective gloves.
Eye Protection:	Chemical goggles or safety glasses.
Skin and Body Protection:	Wear suitable protective clothing.
Respiratory Protection:	Use NIOSH-approved dust mask if dust has the potential to become airborne.
Environmental Exposure Controls:	Do not allow the product to be released into the environment.
Consumer Exposure Controls:	Do not eat, drink or smoke during use

CAS #	Partial Chemical Name	ACGIH TWA
8061-51-6	Lignosulfonic Acid, sodium salt	TLV: 1 mg/m ³
7785-87-7	Magnesium sulfate, heptahydrate	TLV (mist as Mn) 5 mg/m ³
7782-63-0	Iron from FeSO ₄	TLV (mist as Fe) 1 mg/m ³

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Dark brown
Odor	Musty
Odor Threshold	Not available
pH	Approx. 4
Relative Evaporation Rate (butylacetate=1)	water
Melting Point	Not available
Freezing Point	Not available
Boiling Point	>212°F
Flash Point	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Flammability (solid, gas)	Not available
Lower Flammable Limit	Not available
Upper Flammable limit	Not available

Vapor Pressure	(mmHg)760@100oC
Relative Vapor Density at 20 °C	Not available
Relative Density	>4
Specific Gravity	Not available
Solubility	Water: Complete
Partition coefficient: n-octanol/water	Not available
Viscosity	Not available

Explosion Data -

Sensitivity to Mechanical Impact Not expected to present an explosion hazard due to mechanical impact.

Sensitivity to Static Discharge Not expected to present an explosion hazard due to static discharge.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Hazardous reactions will not occur, water based.
Chemical Stability:	Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Extremely high temperatures. Incompatible materials. Moisture.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, metallic oxides, oxides of sulfur.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Causes skin irritation.
pH:	Not available
Serious Eye Damage/Irritation:	Causes eye irritation.
pH:	Not available
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not available
Carcinogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	May cause respiratory irritation.
Symptoms/Injuries After Skin Contact:	Causes skin irritation.
Symptoms/Injuries After Eye Contact:	May cause serious eye irritation.
Symptoms/Injuries After Ingestion:	ingestion may be harmful or have adverse effects.
Chronic Symptoms:	None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:	Not available
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SECTION 12. ECOLOGICAL INFORMATION

Toxicity	Not classified
Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available

Other Adverse Effects

Other Information:	Avoid release to the environment.
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.
Ecology - Waste Materials: Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

DOT	Not regulated for transport	IATA	Not regulated for transport
IMOG	Not regulated for transport	TOG	Not regulated for transport

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

Neither this product nor its chemical components appear on any US federal lists.

US State Regulations

Neither this product nor its chemical components appear on any state lists.

SECTION 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Preparation date 5/17

Other Information

While this company believes that the data contained herein are factual and the opinions expressed are based on tests and data believed to be reliable, it is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by this company as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does this company assume any liability arising out of use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or governmental regulations.