

Date of Issue: 12/21/15
Version: 1.0

SECTION 1. IDENTIFICATION

Product Name: Aluminum Sulfate
Recommended Use: Corrects alkaline soil
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**

Skin Irrit. 2 Eye Irrit. 2B

Label Elements**Pictograms**

Signal Word Warning
Hazard Statements Causes skin irritation
Causes eye irritation

Precautionary Statements

Wear protective gloves / protective clothing. Wash hands and face thoroughly after handling.
If ON SKIN: Wash with plenty of soap and water
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If skin irritation occurs: Get medical advice/attention If eye irritation persists: 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	Product identifier	% W	Classification
Aluminum Sulfate	(CAS No) 16828-12-9	100	Skin Irrit. 2, Eye Irrit. 2B,

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.

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

Skin Contact: Rinse immediately with plenty of 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.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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 is likely to 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: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not considered flammable but may burn at high temperatures.
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: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Forms aluminum oxide, sulfur dioxide and/or sulfur trioxide at temperatures above 760°C (1400°F) or when dry alum is encompassed in a fire involving other burning materials.
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: Contain and collect as any solid.
Methods for Cleaning Up: Avoid generation of dust during clean-up of spills. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant.
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 to avoid excessive dust accumulation. Protect from moisture.

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/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong bases.

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, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance	White to off-white powder or granules
Odor	Not available
Odor Threshold	Not available
pH	> 2.9 @ 5
Relative Evaporation Rate (butylacetate=1)	Not available
Melting Point	86°C (186.8°F)
Freezing Point	Not available
Boiling Point	117°C (242.6°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	Not available
Relative Vapor Density at 20 °C	Not available
Relative Density	Not available
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 under normal conditions.
Chemical Stability:	Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials. Moisture.
Incompatible Materials:	Strong bases.
Hazardous Decomposition Products:	Oxides of aluminum. The decomposition products are corrosive and hazardous to health.

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:	> 2.9 @ 5
Serious Eye Damage/Irritation:	Causes eye irritation.
pH:	> 2.9 @ 5
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:	Causes serious eye irritation.
Symptoms/Injuries After Ingestion:	ingestion is likely to 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

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 12/22/15

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.