# **S A SOUTHERN** 5 0 AG<sub>®</sub>

# **Soil Acidifier SAFETY DATA SHEET**

#### MATERIAL IDENTIFICATION AND COMPANY INFORMATION

**Product Name** Soil Acidifier

Company Southern Agricultural Insecticides, Inc.

P.O. Box 218

Palmetto, FL 34220 (941) 722-3285

National Pesticide Information Center: (800) 858-7378

Chemtrec (800) 424-9300 (24 hour transportation spill response)

T-90, elemental sulfur, granular sulfur **Synonyms** Recommended Use For the correction of high pH soil.

Uses advised against Keep away from heat sources, sparks, or open flames

# 2. HAZARDS IDENTIFICATION

**Acute Dermal Toxicity** Category 4 Skin Corrosion/Irritation Category 2

**Combustible Dust** Yes

GHS Label elements, including precautionary statements, including precautionary statements

# **Emergency Overview**

**Signal Word** Warning



### **Hazard Statements**

May be harmful if swallowed Harmful in contact with skin Causes skin irritation

**Appearance** Greenish-tan Physical State Solid (compressed). **Odor** No information available

# **Precautionary Statements** Prevention

- Wear protective gloves/protective clothing/eye protection/face protection.
- · Wash face, hands and any exposed skin thoroughly after handling.

# **General Advice**

- Specific measures (see supplemental first aid instructions on this label)
- Specific treatment (see supplemental instructions on the administration of antidotes on this label)

#### Skin

- IF ON SKIN: Wash with plenty of soap and water.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

# **Storage**

None

### **Disposal**

• Dispose of contents/container to an approved waste disposal plant.

# **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

May cause irritation of respiratory tract. Contact with eyes may cause irritation. Powdered material may form explosive dust-air mixtures.

Toxic to aquatic life.

May form combustible dust concentrations in air

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	CAS No	Weight %	
Sulfur	7704-34-9	90	
Bentonite	1302-78-9	10	

#### 4. FIRST AID MEASURES

### <u>Description of necessary first-aid measures</u>

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention if symptoms occur.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes while

removing all contaminated clothing and shoes. Consult a physician.

**Inhalation** Move to fresh air. Get medical attention if symptoms occur.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of

water. Never give anything by mouth to an unconscious person. Consult a

physician.

# Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Dermal irritation.

# <u>Indication of immediate medical attention and special treatment needed, if necessary</u>

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Small fires may be smothered with sand.

Page 2 of 8

**Unsuitable Extinguishing Media** Do not scatter spilled material with high pressure water streams.

# **Specific Hazards Arising from the Chemical**

Avoid dust formation. Dust suspended in air is readily ignited by flames, static electricity or friction spark. Every reasonable step must be taken to minimize dust formation. Sulfur dioxide reacts with water to form sulfuric acid.

### **Explosion Data**

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

# <u>Protective Equipment and Precautions for Firefighters</u>

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Avoid dust formation. Do not get in eyes. Use

personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Wash thoroughly after

handling.

**Environmental Precautions** Do not allow material to contaminate ground water system.

# Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

#### **Handling** Ensure adequate ventilation. Do not get in eyes. Avoid dust formation in confined areas.

Keep away from open flames, hot surfaces and sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and

mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Dust tight castings should be equipped with explosion

relief vents. Sparkles electrical equipment is recommended.

# Conditions for safe storage, including any incompatibilities

**Storage** Keep in a dry, cool and well-ventilated place. **Incompatible Products** Incompatible with oxidizing agents; Acids.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

**Exposure Guidelines** 

Chemical Name ACGIHTLV OSHA PEL NIOSH IDLH

Bentonite TWA: 1 mg/m3 - -

1302-78-9 respirable fraction

# Appropriate engineering controls

**Engineering Measures** Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Long sleeved clothing. Impervious gloves.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/

MSHA approved respiratory protection should be worn. Positivepressure supplied air respirators may be required for high airborne

contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

practice. Provide regular cleaning of equipment, work area and

clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid (compressed) Appearance Greenish-tan

Odor No information available Odor Threshold No information available

Property Values

**pH** No data available

Melting Point/Range119 °CBoiling Point/Boiling Range444 °CFlash Point188 °C

**Evaporation rate**Flammability (solid, gas)
No data available
No data available

Flammability Limits in Air

upper flammability limit 1400 gm/m<sup>3</sup> lower flammability limit 35 gm/m<sup>3</sup>

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity 2.07
Water Solubility Insoluble

**Solubility in other solvents** No data available

Page 4 of 8

Partition coefficient: n-octanol/water No data available

190 °C **AutoignitionTemperature** 

**DecompositionTemperature** No data available **Viscosity Solid** None known **FlammableProperties** Not flammable **Explosive Properties** No data available Oxidizing Properties No data available

# Other information

**VOC Content (%)** None

### 10. STABILITY AND REACTIVITY

# Reactivity

No dangerous reaction known under conditions of normal use.

# Chemical stability

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

Fine dust dispersed in air may ignite.

# **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

Dust formation. Exposure to air or moisture.

### **Incompatible materials**

Incompatible with oxidizing agents; Acids.

# Hazardous decomposition products

Sulfur dioxide.

#### 11. TOXICOLOGICAL INFORMATION

# <u>Information on likely routes of exposure</u>

Product Information

Inhalation May cause irritation of respiratory tract.

May cause irritation. **Eve Contact** 

Skin Contact May be absorbed through the skin in harmful amounts. May cause

irritation.

Ingestion May cause irritation to the gastrointestinal tract.

# Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

# Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization No information available. Mutagenic Effects No information available.

**Carcinogenicity** Contains no ingredients above reportable quantities listed as a

carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

# **Numerical measures of toxicity - Product**

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral** 2500 mg/kg; Acute toxicity estimate **LD50 Dermal** 1222 mg/kg; Acute toxicity estimate

Inhalation

**dust/mist** 6.9 mg/L; Acute toxicity estimate

#### 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Sulfur

7704-34-9 Toxicity to Algae No information available

Toxicity to Fish LC50: 86 6 mg/L Brachydanio rerio 96 h static

LC50: <14 mg/L Lepomis macrochirus 96 h static LC50: >180 mg/L Oncorhynchus mykiss 96 h static

Toxicity to Microorganisms No information available Daphnia Magna (Water No information available

Flea)

Bentonite Toxicity to Algae No information available

1302-78-9 Toxicity to Fish LC50 96 h: 8.0-19.0 g/L (Salmo gairdneri)

LC50 96 h: = 19000 mg/L static (Oncorhynchus mykiss)

Toxicity to Microorganisms No information available Daphnia Magna (Water No information available

Flea)

Persistence and Degradability
Bioaccumulation
Other Adverse Effects
No information available.
No information available.

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal

regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state,

regional, or local regulations for additional requirements.

**Contaminated Packaging** Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

#### 15. REGULATORY INFORMATION

# **International Inventories**

TSCA All components of this product are either listed or are exempt on the TSCA inventory. Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

# U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **U.S. State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name New Jersey Massachusetts Pennsylvania Illinois Rhode Island Sulfur X X X X X

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

#### 16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical
				Hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard (	Personal Protection X

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. Resources include tests, research data, and reports believed to be credible. No guarantee is made as to accuracy or completeness. Therefore, the user assumes all risks involving the use of the product.