

# MILLER CHEMICAL & FERTILIZER, LLC

# Safety Data Sheet

# Section 1 – Chemical Product and Company Identification

**Product Name:** Sulforix® **Chemical Name:** CaS<sub>x</sub>

Common Name, Synonym: Inorganic salt solution

Material Uses: Agricultural Industry, Pesticide - Fungicide

Manufacturer/Manufactured For: Miller Chemical & Fertilizer, LLC

Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

#### Section 2 – Hazard Identification

# 2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)

Acute Toxicity – Oral (Category 4)

Acute Toxicity – Inhalation (Category 4)

Skin Irritation (Category 2)

Eye Irritation (Category 1)

Hazardous to aquatic environment Short term/Acute (Category 3)

#### 2.2 Label elements

**GHS Labeling Elements** 

Pictogram:

Signal Word: Danger

Hazard Statements: Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. Harmful to aquatic life.

Precautionary Statements: Wear eye protection. Do not eat, drink, or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/equipment. Contaminated clothing must not be allowed out of the workplace. If swallowed/inhaled: Call a poison center / doctor if you feel unwell. Rinse mouth. Remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow release to aquatic waterways.



Section 3 – Hazards Identification		
Ingredient Name	CAS Number	%
Calcium Polysulfide, CaS <sub>x</sub>	1344-81-6	24-29

PA Right to Know: This product contains proprietary ingredients

This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).

None

#### Section 4 - First Aid Measures

#### **EYE CONTACT**

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

#### **SKIN CONTACT**

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

#### **INHALATION**

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

#### **INGESTION**

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

# Section 5 – Fire-Fighting Measures

Flash Point (METHOD): Not Available
Auto-Ignition: Not Available

Flammable Limits: Not Flammable water based

**Extinguishing Media:** Use alcohol foam, carbon dioxide, water fog, dry chemical, or

halon when fighting fires involving this material.

**Special Fire Fighting Procedures:** None currently known.

**Unusual Fire and Explosion Hazards:** Oxides of carbon may be generated.



#### Section 6 - Accidental Release Measures

#### **Personal precautions**

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

# **Contain spill**

Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If required, notify state and local authorities.

### **Disposal Method**

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

#### Section 7 - Handling and Storage

**Handling:** Wear protective equipment when handling. Wash thoroughly after handling. Do not

get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact

with skin. Do not swallow.

**Storage:** For industrial use only. Keep container closed when not in use. Store in a cool dry

place. Keep out of reach of children.

#### Section 8 - Exposure Controls/Personal Protection

Engineering Controls:

Mechanical: Mechanical ventilation is preferred.

**Respiratory Protection:** Have self-contained breathing apparatus, positive pressure,

MSHA/NIOSHA (approved or equivalent) available in case of spillage or

equipment failure.

OSHA ACGIH

TWA STEL TLV STEL

Hydrogen Sulfide 20 ppm (ceiling) 10 ppm (ceiling)



**Eye Protection:** Chemical goggles or face shield. Always wear eye protection when

working with chemicals. Never wear contact lenses when working with

chemicals.

**Skin Protection:** Rubber gloves. Clean protective body covering, rubber apron, and

rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product,

wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown

in Section IV. Launder contaminated clothing before use.

**Other Protective Equipment:** Safety shower, eye wash fountain, and washing facilities should be

readily available.

# Section 9 – Physical and Chemical Properties

Appearance: Ruby-red/liquid/strong odor of rotten eggs

**Odor:** 0.13 ppm faint, but easily noticeable at 0.77 ppm

**pH (aqueous approx. 5% in DW):** 11.5 – 11.7 @ 68°F (20°C)

**Boiling point/Boiling range:** > 212°F **Freeze Point:** < 0°F

Flash Point:

Vapor Pressure (mmHg):

Not Determined

Not Determined

Not Determined

Not Determined

Solubility in Water: Soluble

**Specific Gravity (H<sub>2</sub>O=1 @ 4°C):** 1.27 g/mL @ 68°F (20°C)

**Evaporation Rate (NA=1):**Percent Volatile by Volume:
Not Determined

# Section 10 – Stability and Reactivity

Chemical Stability: Stable

Materials to Avoid: Strong oxidizers and acids

Hazardous Decomposition or Byproducts: Hydrogen sulfide and oxides of sulfur

Hazardous Polymerization: Will not occur

#### **Section 11- Toxicological Information**

**Toxicity Data:** 

**Inhalation:** INH-Rat LC<sub>50</sub>: 3.6 mg/L (4 hr. exposure)



Acute Dermal: LD<sub>50</sub>(Rabbit): > 2000 mg/kg Acute Oral Effects: LD<sub>50</sub>(Rat): 820 mg/kg

Chronic/Carcinogenicity: Not listed in NTP, IARC or by OSHA

Mutagenicity: Data not available Reproduction: Data not available Teratogenicity: Data not available

## Section 12 – Ecological Information

**Ecotoxicity:** Green Algae, EC<sub>50</sub>: 16.4 mg/L

> Water Flea, EC<sub>50</sub>: 13.7 mg/L Bluegill, LC<sub>50</sub>: 52.9 mg/L

Flathead Minnow, LC<sub>50</sub>: 42.9 mg/L Rainbow Trout, LC<sub>50</sub>: 8.8 mg/L

Bioaccumulative potential: This product is not bioaccumulative

Other adverse effects: None

### Section 13 – Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If

> contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

**Disposal Regulatory Requirements:** Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

**Container Cleaning and Disposal:** Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

# Section 14 - Transport Information

**U.S. DEPARTMENT OF TRANSPORTATION:** (Not Regulated by DOT)

**PROPER SHIPPING NAME:** N/A

**PACKING GROUP:** N/A **HAZARD CLASS: N/A** 

LABEL/PLACARD REQUIRED: N/A

UN/NA No.: N/A

WATER TRANSPORTATION

**PROPER SHIPPING NAME: N/A** 

**PACKING GROUP:** N/A



**HAZARD CLASS:** N/A

LABEL/PLACARD REQUIRED: N/A

UN/NA No.: N/A

**AIR TRANSPORTATION** 

PROPER SHIPPING NAME: N/A
PACKING GROUP: N/A
HAZARD CLASS: N/A

LABEL/PLACARD REQUIRED: N/A

UN/NA No.: N/A

**OTHER AGENCIES: N/A** 

**SECTION 14 NOTES:** This product is not considered a hazard

#### **Section 15 – Regulatory Information**

**EPA Regulations:** 

Reportable Quantity – CERCLA: Not applicable

SARA Title III (EPCRA): Not applicable RCRA Waste Code: Not applicable

**State Regulations:** 

**CA Proposition 65: Not applicable** 

**EPA National Response Center (800) 424-8802** 

# Section 16 – Other Information

**Preparation Date:** 05/01/2015

Prepared By: Miller Chemical Regulatory Compliance Officer

**Revision Date:** 11/30/2015 **Revision Notes:** GHS Update

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") RELATES

ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS SDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER MILLER CHEMICAL & FERTILIZER, LLC. NOR ITS MARKETING AFFILIATES (EACH, A "SELLER") ASSUME ANY LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE

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