MSDS Sheet for St. Louis Crafts' H-57
Liver of Sulphur

MILLER CHEMICAL & FERTILIZER CORPORATION
P.O. BOX 333, RADIO ROAD
HANOVER, PENNSYLVANIA 17331 U.S.A.
TELEPHONE: 717-652-4921
FAX NO. 717-652-4921
CABLE ADDRESS - MICOM

IDENTITY (As Used on Label and Label)
LIME SULFUR SOLUTION
Oxidizer

Section I
Manufacturer's Name
MILLER CHEMICAL & FERTILIZER CORP.
Address (Number, Street, City, State, and ZIP Code)
BOX 333, RADIO ROAD
HANOVER, PA 17331
Emergency Telephone Number
CHEMTREC: 1-800-424-8300 717-652-4921
Telephonic Number for Information
717-652-4921
Date Prepared
4/21/89
Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity: Common Name(s))
OSHA PEL ACGIH TLV Other Limits Recommended % (optional)
CALCIUM POLYSULFIDE CAS No. 1344-81-5 NE NE NE 30

No OSHA Exposure Standard or TLV has been established for this material. However, the OSHA Exposure Standard for H₂S is 20 ppm.

Section III — Physical/Chemical Characteristics
Boiling Point ND Specific Gravity (H₂O = 1) 1.263
Vapor Pressure (mm Hg) ND Melting Point ND
Vapor Density (H₂ = 1) ND Evaporation Rate (BuOH = 1) ND
Solubility in Water Very Soluble
Appearance and Odor Deep Red-Orange Color, "Rotten Egg" Odor

Section IV — Fire and Explosion Hazard Data
Flash Point (Method Used) ND Flammable Limits LEL NDUEL ND
Extinguishing Media CO₂, Dry Chemical, Foam, Water Spray

Special Fire Fighting Procedures
Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke. Avoid contact with fallout or runoff. Minimize the amount of water used for fire fighting. Do not enter enclosed area without self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal.

(Reproduction Necessary) NE - None Established ND - None Determined

OSHA 174, Sept. 1983
### Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
<th>Excessive Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Stable</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Incompatibility (Materials to Avoid)**
- Reacts with Acidic Materials such as vinegar, fertilizers, and acids to produce hydrogen sulfide.
- **Hazardous Decomposition or Byproducts:** Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur; incomplete combustion or thermal decomposition can produce carbon monoxide, oxyhydrocarbon derivatives and sulfur derivatives including hydrogen sulfide.

### Section VI — Health Hazard Data

**Route(s) of Entry:**
- Inhalation: Yes
- Skin: Yes
- Ingestion: Yes

**Health Hazards (Acute and Chronic):**
- Mixed with acids, highly toxic H₂S gas will be released.
- H₂S is irritating to the respiratory tract. Causes skin irritation and may produce systemic toxicity by skin absorption. Corrosive to eyes and causes eye irritation and damage. Moderately toxic if swallowed. About one ounce or more could be fatal to a 150 pound man.

**Carcinogenicity:**
- NTTP: NE
- IARC Monographs: OSHA Regulated: No

**Signs, and Symptoms of Exposure:**
- NA

**Medical Conditions Generally Aggravated by Exposure:**
- None Known

**emergency and First Aid Procedures:**
- Nitrite pearls for 15 to 30 seconds of each minute until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. EYES: Wash eyes immediately with fresh water for at least 15 minutes, get medical attention. SKIN:

### Section VII — Precautions for Safe Handling and Use

**Wash thoroughly, remove contaminated clothing.**

- Steps to Be Taken in Case Material is Released or Spilled:
  - INHALATION: Do not give anything but water, see a doctor.
  - Clean up spills immediately.
  - INGESTION: Move person to fresh air, see a doctor.
  - Absorb with inert material such as sand, sweep up and place in a waste disposal container.
  - Treat area with household bleach. Take up bleach with absorbant. Flush area with water.

**Waste Disposal:**
- Contaminated materials should be placed in disposable containers. Dispose of containers and waste in accordance with Local/State/Federal regulations.

**Precautions to Be Taken in Handling and Storage:**
- Keep from reach of children and animals. Do not store near feed and foodstuffs. Avoid breathing lists and vapors. Avoid contact with skin and eyes. Avoid Ingestion.
- Other Precautions: Keep away from heat, open flames and sources of ignition. Wash thoroughly after handling. Read and observe all precautions on the product label.

### Section VIII — Control Measures

**Respiratory Protection (Specify Type):**
- Use adequate ventilation or a respirator approved for organic vapors.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Preferred</th>
<th>Special</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical (General)</td>
<td>NA</td>
<td>NA</td>
<td>Other</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Protective Gloves:**
- Rubber or Neoprene

**Eye Protection:**
- Safety/Splash Goggles

**Other Protective Clothing or Equipment:**
- Clean, impervious body covering clothing

**Work/Hygiene Practices:**
- Do not get on skin or on clothing, minimize skin contact by wearing protective equipment, wash thoroughly after handling.