

TEL: 717-632-4551

Jul 03, 03 7:38 No.004 P.03

Ref # 111 6392



**MILLER CHEMICAL & FERTILIZER CORPORATION**

MSDS Sheet for St. Louis Crafts' 11-57  
Liver of Sulphur

Rev'd 7-03-03

P.O. BOX 333, RADIO ROAD  
HANOVER, PENNSYLVANIA 17331 U.S.A.  
TELEPHONE: 717-632-8921  
FAX NO: 717-632-4551  
CABLE ADDRESS: MICO

60505-1004

**MATERIAL SAFETY DATA SHEET**

Conforms to U.S. Department of Labor,  
Occupational Safety and Health Administration

IDENTITY (As Used on Label and List)  
**LINE SULFUR SOLUTION**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

**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 717-632-8921**  
Telephone Number for Information  
**717-632-8921**  
Date Prepared  
**4/21/89**  
Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identify Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optc)
<b>CALCIUM POLYSULFIDE CAS No. 1344-81-6</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>30</b>

No OSHA Exposure Standard or TLV has been established for this material. However, the OSHA Exposure Standard for H<sub>2</sub>S is 20 ppm.

**Section III - Physical/Chemical Characteristics**

Boiling Point	ND	Specific Gravity (H <sub>2</sub> O = 1)	1.283
Vapor Pressure (mm Hg)	ND	Melting Point	ND
Vapor Density (AIR = 1)	ND	Evaporation Rate (Butyl Acetate = 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 ND	UEL ND
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Extinguishing Media **CO<sub>2</sub>, Dry Chemical, Foam, Water Spray**

Special Fire Fighting Procedures  
Smoke from fires involving this material may present unusual hazards. Avoid breathing mists. Avoid contact with fallout or runoff. Minimize the amount of water used for

Unusual Fire and Explosion Hazards  
fighting. Do not enter enclosed area without self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal.

(Reproduce locally) **NE - None Established ND - None Determined OSHA 174, Sec**

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MSDS

Liver of Sulphur  
Att'n: [Signature]

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**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid <b>Excessive Heat</b>
	Stable	X	

**Incompatibility (Materials to Avoid)**

Reacts with Acidic Materials such as vinegar, fertilizers and acids to produce hydrogen sulfide gas.

Hazardous Decomposition or Byproducts	May Occur		Conditions to Avoid NA	oxyhydrocarbon derivatives and sulfur derivative including hydrogen sulfide.
	Will Not Occur	X		

**Section VI — Health Hazard Data**

Route(s) of Entry:	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
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Health Hazards (Acute and Chronic)  
If mixed with acids, highly toxic H<sub>2</sub>S gas will be released. H<sub>2</sub>S 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 more could be fatal to a 150 pound person.

Carcinogenicity	NTP?	NE	IARC Monographs?	NE	OSHA Regulated?	No
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Signs and Symptoms of Exposure  
NA

Medical Conditions Generally Aggravated by Exposure  
None Known

Emergency and First Aid Procedures  
For severe hydrogen sulfide poisoning, successful treatment has involved initial inhalation of nitrate pearls for 15 to 30 seconds of each minute until 10 ml of a solution of sodium nitrate can be administered intravenously at 2.5 to 5 ml per minute. EYE Wash eyes immediately with fresh water for at least 15 minutes, get medical attention. SKIN Wash thoroughly, remove contaminated clothing.

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

Steps to Be Taken in Case Material is Released or Spilled  
Clean up spills immediately. INGESTION: Do not give anything BUT water, see a doctor. INHALATION: 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 Method  
Contaminated materials should be placed in disposable containers. Dispose containers and waste in accordance with Local/State/Federal regulations.

Precautions to Be Taken in Handling and Storing  
Keep from reach of children and animals. Do not store near feed and foodstuffs. Avoid breathers 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.

Ventilation	Local Exhaust	Preferred	Special	NA
	Mechanical (General)	NA	Other	NA

Protective Gloves  
Rubbar 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.

NA - Not Applicable or Not Available  
The Information Herein Is Given in Good Faith, But No Warranty, Express or Implied, Is Made

MATERIAL SAFETY DATA SHEET

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SUPPLIER: MILLER CHEMICAL & FERTZ, CORP  
 (717) 632-8921  
 EMERGENCY PHONE: (717) 637-4422

PROPER NAME AND CLASSIFICATION Calcium Polysulfide

Chemical Name & Synonyms <u>Calcium Polysulfide</u>	Chemical Family <u>Polysulfide</u>
Trade Name & Synonyms <u>Lime Sulfur, "LIVER OF SULPHUR"</u>	

TYPICAL PROPERTIES:

Physical Form <u>Liquid</u>	Odor <u>Rotten Eggs</u>
Vapor Pres. (22°C) _____ mm Hg*	Color <u>Orange</u>
Lbs./Gal. (68°F) <u>10.7</u>	Boiling Pt., ° <u>200</u> F
Vapor Density (Air=1) _____	Specific Grav. (20°C) <u>1.28</u>
*Methylene Chloride	Solubility in Water <u>Miscible</u>
	Ph: <u>10.6</u>

HAZARD CLASSIFICATION:

FIRE     TOXICITY     ODOR     REACTIVITY     CORROSIVENESS

Hazard Rating Code: 0 - None, 1-Slight, 2-Moderate, 3-High, U-Unknown

FIRE & EXPLOSION HAZARD DATA

Flash Point (Method Used) <u>Non Combustible</u>	Flammable Limits (% by weight)	Lel	Vel
Extinguishing Media			
Special Fire Fighting Procedures			
Unusual Fire & Explosion Hazards			

HEALTH HAZARD DATA

Threshold Limit Value	Toxicity (Species)	
Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Effects of Overexposure <u>Irritating to eyes, nose and skin. A burning tendency when contact is made with the skin, also a discoloring effect. Nausea can be experienced due to offensive odor.</u>		
Emergency & First Aid Procedures <u>For odor exposure remove patient to fresh air area -</u> <u>in case of contact, wash exposed areas with water</u>		

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REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Very Stable	
Incompatibility (Materials to Avoid)		
Decomposed by acids		
Hazardous Decomposition Products		
None Known		
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	

SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is released or spilled

Wash immediately with generous amount of water.

Waste Disposal Method

Bury sweepings and wash area with water

Container Disposal Method

Bury containers in acceptable disposal area

SPECIAL PROTECTION INFORMATION:

Respiratory Protection (Specify Type)

Self contained respirators recommended \*

Protective Gloves

Eye Protection

Rubber

Goggles of general safety type

Other Protective Equipment

None Required

SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storing

No special precaution required. Avoid breathing material and

contact in case of spillage.

Other Precautions

NOTE: Under no circumstances should personnel enter confined spaces, particularly storage tanks, without self contained breathing apparatus.

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ST. LOUIS CRAFTS, INC.

7686 IDAHO AVE.  
ST. LOUIS, MO 63111-3219  
(314) 638-0038 FAX (314) 638-2862

Memorandum from --

*Attm*  
*Nancy Beckley*  
*Mary*

*7/31/03*

In response to your recent request...enclosed is a Material Safety Data Sheet for our "H-57 Liver of Sulphur".

Also, the following is a list of its' ingredients:

Calcium Polysulfide	29-31%
Calcium Thiosulfate	4-5%
Baume' reading at 60 degrees F	32 degrees
Sulfur	26-30%
Calcium	6-10%

CONFORMS TO ASTM D-4236

St. Louis Crafts, Inc.

*E.D. Muebauer*

*Phone - 1-314-638-0038*

*Maid-o'-Metal and Crafts-Maid craft supplies*