

MATERIAL SAFETY DATA SHEET

LaMOTTE COMPANY
PO BOX 329 - CHESTERTOWN - MARYLAND - 21620
TELEPHONE # FOR INFORMATION 410-778-3100

24 Hour Emergency Number (CHEM-TEL) 800-255-3924

1. PRODUCT IDENTIFICATION

Ferrous-Ferric Iron Reagent

Code Nr. 5265

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
2,2' Bipyridine	366-18-7		2	N/A	N/A
Thioglycolic Acid, free acid (approx. 70% w/w)	68-11-1		70 - 80	1 ppm	1 ppm (skin)

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

<i>Appearance:</i> Pink Liquid			
<i>Solubility in Water:</i> Soluble	<i>Odor:</i> Strong stench--skunk	<i>Boiling Point:</i> 96 deg C/5mm	<i>Melt. Point:</i> N/A
<i>Vapor Pressure:</i> 0.4mm @25 deg C	<i>Vapor Density:</i> 3 (Air=1)	<i>pH:</i> 1	

5. FIRE AND EXPLOSION DATA

<i>Flash Point (method used)</i> >110 deg C	<i>Flammable Limit: LEL:</i> 6%	<i>UEL:</i> Unknown
<i>Extinguishing Media:</i> Dry chemical, CO ₂ , water spray, or alcohol-resistant foam		
<i>HMIS Hazard: Health - 2 Flammability - 1 Reactivity - 1</i> <i>Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least</i>		
<i>Special Fire Fighting Procedures:</i> Firefighters wear self-contained breathing apparatus		
<i>Unusual Fire & Explosion Hazard:</i> Liberates poisonous hydrogen sulfide gas on decomposition with heat.		

6. REACTIVITY DATA

<i>Stability:</i>	<i>Conditions to avoid:</i> Heat
<input checked="" type="checkbox"/> <i>Stable</i>	<i>Incompatibility (Materials to avoid):</i> Contact with nitric acid or other strong oxidizers
<input type="checkbox"/> <i>Unstable</i>	<i>Hazardous Decomposition Products:</i> SO _x , CO _x , hydrogen sulfide gas

7. HEALTH HAZARD DATA

<i>Toxicity:</i> 0rl rat & mice LD50: 54 - 73 mg/kg for Thioglycolic Acid; 100 mg/kg for 2,2'Bipyridine	
<i>Primary Route of Entry:</i>	<input checked="" type="checkbox"/> <i>Inhalation</i> <input checked="" type="checkbox"/> <i>Skin</i> <i>Carcinogenicity:</i> <input checked="" type="checkbox"/> <i>None</i> <input type="checkbox"/> <i>NTP</i> <input checked="" type="checkbox"/> <i>Ingestion</i> <input type="checkbox"/> <i>N/A</i> <input type="checkbox"/> <i>OSHA</i> <input type="checkbox"/> <i>IARC</i>
<i>Other Health Related Comments:</i>	
<i>Target Organs:</i> Skin,	
<i>Signs and symptoms of exposure:</i> Extremely irritating to nose and eyes. Causes severe burns and blistering of skin. May be fatal if swallowed.	
<i>Medical Condition Aggravated by Exposure:</i> N/A	

8. EMERGENCY FIRST AID PROCEDURES

<i>Eye Contact:</i> Immediately flush with water for 15 minutes. Consult physician.
<i>Ingestion:</i> Do not induce vomiting. Rinse out mouth. Drink plenty of water. Call a doctor immediately.
<i>Inhalation:</i> Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult give oxygen.
<i>Skin Contact:</i> Flush thoroughly with water for 15 minutes while removing affected clothing and shoes. Wash skin with soap and water.

9. SPILL AND DISPOSAL PROCEDURES

<i>Spill and Leak:</i> Evacuate area. Wear respiratory protection & rubber gloves. Absorb on sand, vermiculite, or spill pads & place in closed container for disposal. Ventilate area & wash spill site after pickup is complete.
<i>Disposal:</i> Burn in a chemical incinerator, or decompose the thioglycolic acid by pouring material into a weak aqueous solution (up to 15%) of sodium or calcium hypochlorite. Stir well. Neutralize and wash down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

<i>In Handling:</i> <input checked="" type="checkbox"/> <i>Gloves</i> <input checked="" type="checkbox"/> <i>Eye Protection</i> <input type="checkbox"/> <i>N/A</i> <input checked="" type="checkbox"/> <i>Other:</i> Lab Coat
<i>Ventilation</i> <input type="checkbox"/> <i>Normal</i> <input checked="" type="checkbox"/> <i>Mechanical</i> <input type="checkbox"/> <i>Respiratory Protection</i>
<i>Work/Hygienic Practices:</i> Avoid contact w/skin & clothing; do not breathe vapor; use w/adequate ventilation.

11. SPECIAL PRECAUTIONS

Store away from combustibles and oxidizers.

DATE: 9/7/00 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

▲ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.