1. Product Identification

Product Code: 4635
Product Description: Sulfide Test Solution #3

Manufactured By: LaMotte Company
Location: 802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Hazard</th>
<th>CAS#/Name</th>
<th>%</th>
<th>PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>10025-77-1 Ferric Chloride Hexahydrate</td>
<td>50</td>
<td>None Established</td>
<td>1 mg/m³ as Fe</td>
</tr>
<tr>
<td>No</td>
<td>7732-18-5 Water</td>
<td>to 100%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
</tbody>
</table>

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion
Danger! Corrosive. Can cause severe irritation or burns to eyes, skin, and lungs. Harmful or fatal if swallowed.

HMIS Hazard
Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
Health: 3 Flammability: 0 Reactivity: 2

Carcinogenicity: None:

Other Health Related Comments:
Ingesting doses larger than 30mg/kg of Ferric Chloride may cause nausea, vomiting, and diarrhea. Pink discoloration of urine is a strong indicator of iron poisoning. Liver damage, coma, and death may follow.
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4. First Aid Measures

**Eye Contact:** Immediately flush with water for at least 15 minutes while occasionally lifting upper and lower eyelids. Seek immediate medical attention.

**Skin Contact:** Immediately flush skin with water for at least 15 minutes while removing affected clothing/shoes. Seek immediate medical attention.

**Ingestion:** DO NOT induce vomiting. Rinse out mouth. Give large quantities of water. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and seek immediate medical attention.

5. Fire Fighting Measures

**Flash Point (Method Used):** N/A  
**LEL:** N/A  
**UEL:** N/A

**Extinguishing Media:** Not a fire hazard

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Wear PPE noted in section 8. Neutralize spill w/sodium bicarbonate. Containerize material & hold for proper disposal in accordance to federal, state, & local regulations. If permitted, dilute neutralized material & flush to drain with excess water.

7. Handling & Storage

Store tightly closed container in cool, dry, ventilated area away from incompatible materials (strong bases, metals, sulfides, and cyanides). Keep out of reach of children.
# 8. Exposure Controls/Personal Protection

**Ventilation**

Normal

**Protection When Handling**

Eye Protection  Gloves  Lab Coat

**Work/Hygienic Practices:** Avoid contact with eyes, skin, and clothing. Wash after handling.

# 9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td>Dark amber liquid</td>
</tr>
<tr>
<td><strong>Solubility In Water:</strong></td>
<td>Soluble</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>slight HCl odor</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>&lt;1</td>
</tr>
<tr>
<td><strong>Vapor Density:</strong></td>
<td>Unknown</td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
<td>&lt;15 mm Hg @ 20° C</td>
</tr>
<tr>
<td><strong>Boiling Point:</strong></td>
<td>Unknown</td>
</tr>
<tr>
<td><strong>Melting Point:</strong></td>
<td>Unknown</td>
</tr>
</tbody>
</table>

# 10. Stability & Reactivity

**Stable:** Yes

**Conditions To Avoid:** Heat

**Incompatibility (Materials To Avoid):** Alkalis, oxidizers, metals

**Hazardous Decomposition Products:** Irritating Hydrogen Chloride fumes may form in fire.

# 11. Toxicological Information

**Oral rat LD50:** 316 mg/kg for Ferric chloride (anhydrous); investigated as a mutagen, reproductive effector.

**Target Organs:** Corrosive to all body parts  Liver  Skin
12. Ecological Information

Information Not Yet Available.

13. Disposal Considerations

Dispose according to federal, state and local regulations. If permitted, dilute and neutralize with sodium bicarbonate. Flush to drain with copious amounts of water.

14. Transportation Information

Proper Shipping Name:

DOT: FERRIC CHLORIDE SOLUTION

IATA: FERRIC CHLORIDE SOLUTION

Hazard Class/Div:

DOT: 8
IATA: 8

UN: 2582
Packing Group: III

15. Regulatory Information

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Hazard</th>
<th>Chemical Inventory Status</th>
<th>Federal, State, &amp; International Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>USA</td>
<td>TSCA</td>
</tr>
<tr>
<td>7705-08-0 Ferric Chloride anhydrous</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>7732-18-5 Distilled Water</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Sulfide Test Solution #3

**Product Code:** 4635  
**Product Description:** Sulfide Test Solution #3

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactivity</th>
<th>Hazchem Code</th>
<th>Poison Schedule</th>
<th>This MSDS Is WHMIS Compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>7705-08-0 Ferric Chloride anhydrous</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>2R</td>
<td>None Allocated</td>
<td></td>
</tr>
<tr>
<td>7732-18-5 Distilled Water</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None Allocated</td>
<td>None Allocated</td>
<td></td>
</tr>
<tr>
<td><strong>Product 4635 as a whole</strong></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>2R</td>
<td>None Allocated</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 16. Other Information
Keep out of reach of children.

**Prepared By:** Regulatory Affairs Department  
**Revised:** 4/8/2009