



PO Box 329 • 802 Washington Avenue • Chestertown, MD 21620 • USA

Telephone Number For Information 410-778-3100

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

# MSDS

## Material Safety Data Sheet

### 1. Product Identification

**Product Code:** 6446  
**Product Description:** Copper 1

### **Manufactured By:**

LaMotte Company  
802 Washington Avenue  
Chestertown, MD 21620

### 2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	Ammonium Hydroxide	1336-21-6	3	35 ppm as NH3	25 ppm as NH3
Yes	Toluene	108-88-3	<0.1	100 ppm	100 ppm
Yes	Sodium Diethyldithiocarbamate, trihydrate	20624-25-3	1	N/E	N/E
No	Water to 100%	7732-18-5	>95		

### 3. Hazards Overview

**Primary Route of Entry:** Ingestion Inhalation Skin

Caution! Vapors and liquid cause irritation to eyes, skin and respiratory system. May be harmful if swallowed.

**Carcinogenicity:** None

#### Other Health Related Comments:

This product contains toluene, a chemical known to the state of California to cause birth defects and other reproductive harm.

Aggravation of Pre-existing Conditions: Persons with pre-existing respiratory conditions may be more susceptible to the effects of this product

### 4. First Aid Measures

**Eye Contact:** Immediately flush with water for 15 minutes. Consult a physician.

**Skin Contact:** Immediately flush with water. Wash skin with soap and water.

**Ingestion:** Do not induce vomiting. Rinse mouth, drink glass of water or milk. Call a physician.

**Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen.

---

**Product Code: 6446**

**Product Description: Copper 1**

---

### 5. Fire Fighting Measures

**Flash Point:** N/A    **LEL:** N/A    **UEL:** N/A

**HMIS Hazard:** (Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least)

Health: 1    Flammability: 0    Reactivity: 0

### Fire Rating

**Extinguishing Media:** Not a fire hazard

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

**Hazardous Combustion and/or Decomposition Products:** ammonia, NOx; reaction w/ acid can release carbon disulfide.

**Unusual Fire & Explosion Hazard:** N/A

---

### 6. Accidental Release Measures

Carefully neutralize with dilute hydrochloric acid. Flush down drain with excess water.

---

### 7. Handling & Storage

Store in cool, ventilated area away from acids or other incompatible materials.

### 8. Exposure Controls/Personal Protection

#### Ventilation

A system of local and/or general exhaust is recommended.

#### Protection When Handling

Gloves    Eye Protection    Lab Coat

**Work/Hygienic Practices:** Use only with adequate ventilation. Avoid contact with skin and clothing.

---

### 9. Physical & Chemical Properties

<b>Appearance:</b>	Colorless Clear Liquid	<b>Boiling Point:</b>	ca. 100 degC
		<b>Melting Point:</b>	N/A
		<b>pH:</b>	12
<b>Odor:</b>	Pungent, ammonia	<b>Vapor Density:</b>	Unknown
<b>Solubility in Water:</b>	Soluble	<b>Vapor Pressure:</b>	>20 @ 20 deg C

---

### 10. Stability & Reactivity

**Stable:** Yes  
**Conditions to Avoid:** Heat  
**Materials to Avoid:** Alkali metals

**Hazardous Decomposition Products:** ammonia, NOx; reaction with acid can release carbon disulfide.

---

**Product Code: 6446****Product Description: Copper 1**

---

---

**11. Toxicological Information****oral rat LD50: 350 mg/kg, ammonium hydroxide; 1500 mg/kg, sodium diethyldithiocarbamate**

Sodium Diethyldithiocarbamate investigated as a tumorigen and mutagen

**Target Organs:** Lungs Respiratory System

---

**12. Ecological Information**

Information not Available

---

**13. Disposal Considerations**

Neutralize with dilute hydrochloric acid, then flush down drain with excess water. Dispose according to federal, state and local regulations.

---

**14. Transport Information**

Not regulated for transport

---

**15. Regulatory Information****Chemical Inventory Status**

<b>Ingredient</b>	<b>USA</b>	<b>Europe</b>	<b>---Canada---</b>		<b>Australia</b>	<b>Japan</b>
	<b>TSCA</b>	<b>EC</b>	<b>DSL</b>	<b>NDSL</b>		
Ammonium Hydroxide	Yes	Yes	Yes	No	Yes	Yes
Toluene	Yes	Yes	Yes	No	Yes	Yes
Sodium Diethyldithiocarbamate, trihydrate	Yes	Yes	Yes	No	Yes	Yes
Water to 100%						

**Federal, State, & International Regulations**

<b>Ingredient</b>	<b>---SARA 302---</b>		<b>----- SARA 313 -----</b>		<b>CERCLA</b>	<b>RCRA 261.33</b>	<b>TSCA 8(D)</b>
	<b>RQ</b>	<b>TPQ</b>	<b>Listed</b>	<b>Chemical Category</b>			
Ammonium Hydroxide	No	No	No	No	1000	No	No
Toluene	No	No	Yes	No	1000	U220	No
Sodium Diethyldithiocarbamate, trihydrate	No	No	No	No	1	No	No
Water							

---

**Product Code: 6446**

**Product Description: Copper 1**

---

**Federal, State, & International Regulations**

<b>Ingredient</b>	<b>----- SARA 311/312 ----- Hazard Categories</b>	<b>----- Australia -----</b>		<b>This MSDS is WHMIS Compliant</b>
		<b>Hazchem Code</b>	<b>Poison Schedule</b>	
Ammonium Hydroxide	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure/Solid)	2P	S6	
Toluene	Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Pure/Liquid)	3[Y]E	S6	
Sodium Diethyldithiocarbamate, trihydrate Water	Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure/Solid)	None allocated	None allocated	
<b>For product #6446 liquid mixture taken as a whole</b>	Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No			Yes

---

**16. Other Information**

**Prepared By: IP**

**Revised: 3/07/2005**