MATERIAL SAFETY DATA SHEET

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

1. PRODUCT IDENTIFICATION

Copper Test Solution *Code Nr.* **5267**

2. HAZARDOUS INGREDIENTS

NAME	*CAS #*	*TSCA #*	*%*	*PEL*	*TLV*
Ammonium Hydroxide (16% w/w aqueous ammonia)	1336-21-6		57	35 mg/cubic m as NH3	25 ppm as NH3
Ammonium Chloride	12125-02-9		7	10 mg/cubic m (fume)	10 mg/cubic m (fume)

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

NAME	*CAS #*	*%*
Water to 100%		

4. PHYSICAL DATA

Appearance: Clear Colorless Liquid

Solubility in Water: Soluble | *Odor:* Pungent, ammonia | *Boiling Point:* Unknown | *Melt. Point:* Unknown

Vapor Pressure: ca. 32mm @ 25 C | *Vapor Density:* <1 (Air=1) | *pH:* 11

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A | *Flammable Limit: LEL:* N/A | *UEL:* N/A

Extinguishing Media: Water spray

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

Special Fire Fighting Procedures:
Firefighters wear SCBA.

Unusual Fire & Explosion Hazard:
Gives off flammable vapors. Closed containers exposed to heat may explode.

6. REACTIVITY DATA

Stability:
☒ *Stable*
☐ *Unstable*

Conditions to avoid: Heat, light

Incompatibility (Materials to avoid):
Strong acids, metals, chlorine and bleaches

Hazardous Decomposition Products: Ammonia, NOx

7. HEALTH HAZARD DATA

Toxicity: orl rat LD50: 350 mg/kg for ammonium hydroxide

Primary Route of Entry: ☒ *Inhalation* ☒ *Skin* ☒ *Ingestion* ☐ *N/A*

Carcinogenicity: ☒ *None* ☐ *NTP* ☐ *OSHA* ☐ *IARC*

Other Health Related Comments:

Target Organs: Eyes, Lungs, Skin, Respiratory System

Signs and symptoms of exposure:
Vapors harmful to mucous membranes. Causes severe burns, may be fatal if swallowed.

Medical Condition Aggravated by Exposure: Respiratory conditions

8. EMERGENCY FIRST AID PROCEDURES

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

Ingestion: Do not induce vomiting. Rinse mouth. Drink plenty of water. Call a doctor immediately.

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin Contact:
Immediately flush skin with water for 15 minutes while removing affected clothing.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
Do not breathe vapor. Wear NIOSH approved respirator with ammonia vapor cartridge if airborne concentration exceeds TLV. Carefully neutralize with dilute HCl. Mop up and flush down drain with excess water.

Disposal:
Pour into water. Neutralize with dilute HCl and flush down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☒ *Gloves* ☒ *Eye Protection* ☐ *N/A* ☒ *Other:* Lab Coat

Ventilation ☐ *Normal* ☒ *Mechanical* ☐ *Respiratory Protection*

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

11. SPECIAL PRECAUTIONS

Store tightly closed, away from heat, light, and acids.

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.