

MATERIAL SAFETY DATA SHEET

CALIBRATOR

Updated 12/96

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: CALIBRATOR

General Use: Additive for the etching of copper and brass.

Company: UEI™ Systems, A Division of Universal Engraving, Inc.
9090 Nieman Road Overland Park, KS, USA 66214
1-800-821-8864 or 913-599-0244EMERGENCY CONTACT: 1-800-424-9300
703-527-3887United States and Canada
International

2. HAZARDOUS INGREDIENTS:

4-Methylaminophenol Sulfate

CAS No. 55-55-0

3. HAZARDS IDENTIFICATION:

This product should be considered a POISONOUS material.

White/off-white crystalline powder. Irritating to eyes, respiratory system, and skin. Harmful if swallowed, inhaled, or absorbed through the skin.

Routes of Entry: Inhalation, Ingestion, and Skin Absorption.

Health Hazards (Acute and Chronic): Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Carcinogenicity: NA

Signs and Symptoms of Exposure: Headaches, shallow respiration, low blood pressure, weight loss, anemia, weakness and irritability.

4. FIRST AID MEASURES:

In all cases call a physician immediately.

INGESTION: If swallowed, wash out mouth with water if the person is conscious.

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

EYE CONTACT: Flush eyes with large amounts of water for at least 15 minutes.

SKIN CONTACT: Flush skin with soap and large amounts of water for at least 15 minutes.

5. FIRE FIGHTING MEASURES:

Flash Point: NA

Flammable Limits: NA

Auto-ignition Temperature: 531° Celsius

Extinguishing Media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or Appropriate Foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full face piece operated in positive pressure mode and full protective clothing to prevent skin and eye contact. Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES:

Wear protective clothing including self-contained breathing apparatus or respirator device, safety glasses, rubber boots, and rubber gloves. Moisten the spilled powder with water until the powder becomes a paste. Do not remove any powder until it is in paste form. Then pick up the paste with paper towels or a mop and rinse the towels or mop in a container of water. When the spill is completely picked up dispose of the rinse water, the towels, and the mop head in an approved method. Ensure compliance with local, state and federal regulations.

7. HANDLING AND STORAGE:

SEE: Section 8 for general protective measures. Store in a cool, dry location. Keep packages sealed from exposure to air.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Use only in a well-ventilated area. Wear chemical resistant rubber gloves, chemical safety goggles for eye protection (contact lens should not be worn), chemical resistant body covering, and boots. Safety shower and eye wash stations should be located in work area. Wash thoroughly after handling product. DO NOT BREATHE DUST.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: NA

Vapor Density (Air=1): NA

Solubility in Water: Not Available

Viscosity: NA

Melting Point: 260° Celsius

Vapor Pressure: NA

Specific Gravity (Water=1): Solid material

pH: NA

Evaporation Rate (n-Butyl Acetate=1): NA

Appearance/Physical State: White to off-white color solid.

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: NA

Incompatibility: Acids and Oxidizers.

Hazardous Decomposition or By-products: Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides. Sulfur oxides.

Hazardous Polymerization: Does NOT polymerize.

11. OTHER INFORMATION

UEI™ Systems provides the information contained herein in good faith. It is believed to be correct. However it is not all inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI™ Systems shall not be held liable for any damage resulting from handling or from contact with this product.

Abbreviations: NA - Not Applicable