

WTW GmbH
Dr. Karl Slevogt Str. 1, D-82362 Weilheim, Germany
Tel: 49(0)881/183-0

WTW Inc.
6E Gill St., Woburn, MA 01801 USA
Phone: 781-569-0095

Creation Date: 06/13/05 (2930F-1)
Revision Date:

FOR CHEMICAL EMERGENCY
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA: 800-424-9300
INTERNATIONAL: 703-527-3887 (collect calls accepted)

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: COPPER Ampoules

MODEL NO.: Cu-2 CV

DESCRIPTION: Reagent ampoules for the determination of copper in water. Each ampoule contains approximately 2 mL of liquid reagent sealed under vacuum.

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Bathocuproinedisulfonic acid, disodium salt
 CAS NO.: 52698-84-7 PERCENT: 0.1

COMPONENT: Oxalic Acid
 CAS NO.: 144-62-7 PERCENT: 0.5

COMPONENT: Sodium Bisulfite
 CAS NO.: 7631-90-5 PERCENT: 0.5

COMPONENT: Acetone
 CAS NO.: 67-64-1 PERCENT: < 1.0

COMPONENT: Acetic Acid, Glacial
 CAS NO.: 64-19-7 PERCENT: 15.0

COMPONENT: Ammonium Hydroxide
 CAS NO.: 1336-21-6 PERCENT: 20.0

COMPONENT: Deionized Water
 CAS NO.: 7732-18-5 PERCENT: >62.0

III. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: Irritation, skin sensitization is rare

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin or respiratory disorders

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

INHALATION: Remove individual to fresh air.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A

FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent material. Place in small containers for disposal.

VII. HANDLING AND STORAGE

Always wear eye protection when working with these ampoules.

WARNING: Do not break the tip of the ampoule unless it is completely immersed in your sample. Breaking the tip in the air may cause the glass ampoule to shatter.

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.

Wash thoroughly after handling. Avoid contact with eyes.

Fragile. Liquid in glass. Handle with care.

Product should be stored in the dark and at room temperature; however, temperatures up to 120 °F or even below freezing will not normally affect reagent performance.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL: 10 ppm Glacial Acetic Acid TWA, 50 ppm Ammonia

ACGIH TLV: 10 ppm Glacial Acetic Acid TWA, 25 ppm Ammonia

PROTECTIVE EQUIPMENT: Safety glasses

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless/Brown tint

ODOR: Pungent, vinegar-like pH: 7

SOLUBILITY IN WATER: Miscible SPECIFIC GRAVITY: 0.98

BOILING POINT: 106 °C MELTING POINT: -4 °C

VAPOR PRESSURE: N/A VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, ammonia and oxides of nitrogen, carbon, sulfur, and sodium may be emitted.

Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Acetic acid has high BOD which may cause oxygen depletion in aquatic systems and is expected to biodegrade rapidly. Ammonium hydroxide is toxic to aquatic life, not expected to bioaccumulate.

No other data available at this time.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Not regulated

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EU Symbols: Xi - IRRITANT

Risk Phrases: Irritating to eyes, respiratory system and skin.

Safety Phrases: Avoid release to the environment. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe fumes.

CANADIAN INFORMATION:

WHMIS Classification: D1B

All chemical components of this product are listed on Canada's DSL.

U.S. INFORMATION:

This product contains ammonia which is subject to SARA Section 313 reporting requirements.

All chemical components of this product are listed on the TSCA Inventory.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.