

**CHEMetrics, Inc.**  
**4295 Catlett Rd., Calverton, VA 20138**  
**(800) 356-3072 (540) 788-9026**  
**Fax (540) 788-4856 E-mail technical@chemetrics.com**

**24 Hour Emergency Numbers: (703) 590-9204**  
**(540) 439-3860**  
**Creation Date: 01/19/99 (2699-3)**  
**Revision Date: 07/22/04**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAMES: MOLYBDATE CHEMets® and Vacu-vials®

CATALOG NOS.: R-6702, R-6720 and R-6703

DESCRIPTION: Reagent ampoules for the determination of molybdate in water. The R-6702 CHEMets® contain approximately 0.50 mL of liquid reagent sealed under vacuum. The R-6720 CHEMets® contain approximately 1.3 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ 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: Catechol  
 CAS NO.: 120-80-9 PERCENT: < 1.0

COMPONENT: Sodium Sulfite  
 CAS NO.: 7757-83-7 PERCENT: < 1.0

COMPONENT: Deionized Water  
 CAS NO.: 7732-18-5 PERCENT: > 98.0

COMPONENT: Other components  
 CAS NO.: N/A PERCENT: < 1.0

Any component of this mixture not specifically listed (e.g. "other components") is not considered to present a carcinogen hazard.

### III. HAZARDS IDENTIFICATION

Harmful if swallowed or absorbed through the skin.  
 ACUTE TOXICITY: Irritation, nausea, vomiting and diarrhea, difficulty breathing in individuals with sulfite sensitivity  
 CHRONIC TOXICITY: Irritation, dermatitis, headache, dizziness, skin sensitization. Effects may be delayed.  
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Sulfite sensitivity

### 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 to fresh air. If necessary, give artificial respiration by mechanical means, do not use mouth to mouth resuscitation, seek medical attention.

### V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
 FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
 EXTINGUISHING MEDIA: Water, dry chemical, foam or carbon dioxide

### VI. ACCIDENTAL RELEASE MEASURES

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

### VII. HANDLING AND STORAGE

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

ACGIH TLV: 20 mg/m<sup>3</sup> Catechol TWA  
 PROTECTIVE EQUIPMENT: Safety glasses.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless to pale yellow ODOR: None  
 SOLUBILITY IN WATER: Complete pH: 7.5  
 BOILING POINT: 104°C MELTING POINT: 3°C  
 VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.0  
 VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids  
 HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of carbon and sulfur may be emitted.  
 Stable under normal conditions.

### XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: IARC: Group 2B carcinogen (Catechol)  
 OSHA: Possible Select carcinogen (Catechol)  
 No other data available at this time.

### XII. ECOLOGICAL INFORMATION

No data available.

### XIII. DISPOSAL CONSIDERATIONS

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

### XIV. TRANSPORT INFORMATION

Not regulated.

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:  
 EU Symbols: Not listed  
 Risk Phrases: Not listed  
 CANADA INFORMATION:  
 WHMIS Classification: D2B  
 All chemical components of this product are listed on Canada's DSL list.  
 U.S. INFORMATION:  
 This product contains catechol 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.

CHEMets® and Vacu-vials® are registered trademarks of CHEMetrics, Inc.