



# SAFETY DATA SHEET

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K9003-1  
Creation Date: 2012-06-05

## I. CHEMICAL IDENTIFICATION

### PRODUCT TRADE NAME:

Silica Vacu-vials® Ampoules, CHEMets® Refill, ULR CHEMets® Refill

### PRODUCT PART NO.:

K-9003, R-9010, R-9011

### MANUFACTURER:

CHEMetrics, Inc., 4295 Catlett Road, Midland VA 22728  
phone: 800-356-3072, 540-788-9026 fax: 540-788-4856  
email: technical@chemetrics.com

### EMERGENCY PHONE NUMBERS:

FOR CHEMICAL EMERGENCY USE ONLY (spill, leak, fire, exposure, accident). Use the corporate numbers above for all other calls.

Chemtrec within USA and Canada: 800-424-9300  
Chemtrec outside USA and Canada: +1-703-527-3887

PRODUCT DESCRIPTION: Part of a water analysis test kit. Each Vacu-vial™ ampoule contains approximately 2 mL of liquid reagent sealed under vacuum. Each CHEMet™ ampoule contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each ULR CHEMet™ ampoule contains approximately 1 mL of liquid reagent sealed under vacuum.

Complete kits contain additional chemical reagent(s). See separate SDS(s).

## II. HAZARDS IDENTIFICATION

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0  
ACUTE TOXICITY: Irritation, nausea, diarrhea, CNS depression, allergic reactions in sensitive people, allergic dermatitis  
CHRONIC TOXICITY: Irritation, skin sensitization  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin, liver and kidney disorders

## III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Aminonaphtholsulfonic Acid  
CAS NO.: 116-63-2 PERCENT: < 0.1

COMPONENT: Sodium Sulfite  
CAS NO.: 7757-83-7 PERCENT: < 0.2

COMPONENT: Sodium Bisulfite  
CAS NO.: 7631-90-5 PERCENT: 1 - 3

COMPONENT: Diethylene Glycol  
CAS NO.: 111-46-6 PERCENT: 3 - 11

COMPONENT: Deionized Water  
CAS NO.: 7732-18-5 PERCENT: > 85

COMPONENT: Other Components  
CAS NO.: N/A PERCENT: < 1

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

## IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.  
INGESTION: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupsful of milk or water. Never give anything by mouth to an unconscious person. Seek medical advice.  
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: Water spray

## 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 this product.

WARNING: Do not break the tip of the ampoule unless it is completely immersed in sample. Breaking the tip in 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.

Exposure of this product to temperatures up to 49°C or below 0°C will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature, and should not be used beyond expiration date.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: None established

ACGIH TLV: 5 mg/m<sup>3</sup> TWA sodium bisulfite

PROTECTIVE EQUIPMENT: Impact- and splash-resistant eyewear; Protective gloves compatible with the hazardous reagent constituents identified on this SDS.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless to pale yellow

ODOR: None SPECIFIC GRAVITY: 1.0

SOLUBILITY IN WATER: Miscible pH: 5

BOILING POINT: 100°C MELTING POINT: 0°C

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

## X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon, sodium, and sulfur  
Stable under normal conditions.

## XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Sodium bisulfite: ACGIH – Group A4, not classifiable as human carcinogen.

No other data available at this time.

## XII. ECOLOGICAL INFORMATION

Diethylene glycol has a low bioconcentration potential and is practically non-toxic to aquatic organisms.

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.

This product is part of a water analysis test kit. See SDS for other kit components for transport information.

## XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols / Risk Phrases: None

Safety Phrases: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

CANADIAN INFORMATION:

WHMIS Classification: D2A, D2B

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

U.S. INFORMATION:

OSHA: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard (29 CFR 1910.1200).

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.

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# SAFETY DATA SHEET

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S9000-1  
Creation Date: 2012-10-02

## I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME:  
Neutralizer Solution for Silica CHEMets®, ULR CHEMets® & Vacu-vials® Kits

PRODUCT PART NO.: A-9000

COMPONENT OF KIT CATALOG NOS.: K-9003, K-9010, K- 9011  
Complete kits contain additional chemical reagent(s). See separate SDS(s).

MANUFACTURER:  
CHEMetrics, Inc., 4295 Catlett Road, Midland VA 22728  
phone: 800-356-3072, 540-788-9026 fax: 540-788-4856  
email: technical@chemetrics.com

EMERGENCY PHONE NUMBERS:  
FOR CHEMICAL EMERGENCY USE ONLY (spill, leak, fire, exposure, accident).  
Use the corporate numbers above for all other calls.  
CHEMTREC within USA and Canada: 800-424-9300  
CHEMTREC outside USA and Canada: +1-703-527-3887

PRODUCT DESCRIPTION: Part of a water analysis test kit. Each bottle of neutralizer solution contains approximately 9 mL of liquid reagent.

## II. HAZARDS IDENTIFICATION

Irritating to eyes.

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

ACUTE TOXICITY: Irritation, nausea, vomiting, diarrhea  
CHRONIC TOXICITY: May impair ability to absorb calcium and iron  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and respiratory conditions

## III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Citric Acid, Monohydrate
CAS NO.:	5949-29-1 PERCENT: 33
COMPONENT:	Deionized Water
CAS NO.:	7732-18-5 PERCENT: 67

## IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Seek medical advice.  
INGESTION: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupsful of milk or water. Never give anything by mouth to an unconscious person. Seek medical advice.  
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

Wear eye protection when working with this product.  
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.  
Exposure of this product to temperatures up to 49°C or below 0°C will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature, and should not be used beyond expiration date.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL and ACGIH TLV: None established  
PROTECTIVE EQUIPMENT: Impact- and splash-resistant eyewear; Protective gloves compatible with the hazardous reagent constituents identified on this SDS.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless  
ODOR: None SPECIFIC GRAVITY: 1.12  
SOLUBILITY IN WATER: Miscible pH: 2.2  
BOILING POINT: 102°C MELTING / FREEZING POINT: -4°C  
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

## X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong oxidizing and reducing agents  
HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon  
Stable under normal conditions.

## XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None  
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

This product is not regulated for transport.  
Complete kits contains additional chemical reagent(s). See corresponding SDS(s) for other kit components for transport information.

## XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:  
EU Symbols: Xi - IRRITANT  
Risk Phrases: Irritating to eyes.  
Safety Phrases: Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

CANADIAN INFORMATION:  
WHMIS Classification: E  
All chemical components of this product are listed on Canada's DSL or are exempt.

U.S. INFORMATION:  
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.

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# SAFETY DATA SHEET

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S9001-1  
Creation Date: 2012-10-03

## I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME:  
Activator Solution for Silica CHEMets®, ULR CHEMets®, and Vacu-vials® Kits  
PRODUCT PART NO.: A-9001

COMPONENT OF KIT CATALOG NOS.: K-9003, K-9010, K-9011  
Complete kits contain additional chemical reagent(s). See separate SDS(s).

MANUFACTURER:  
CHEMetrics, Inc., 4295 Catlett Road, Midland VA 22728  
phone: 800-356-3072, 540-788-9026 fax: 540-788-4856  
email: technical@chemetrics.com

EMERGENCY PHONE NUMBERS:  
FOR CHEMICAL EMERGENCY USE ONLY (spill, leak, fire, exposure, accident).  
Use the corporate numbers above for all other calls.

CHEMTREC within USA and Canada: 800-424-9300  
CHEMTREC outside USA and Canada: +1-703-527-3887

PRODUCT DESCRIPTION: Part of a water analysis test kit. Each bottle of activator solution contains approximately 18 mL of liquid reagent.

## II. HAZARDS IDENTIFICATION

Corrosive. Causes severe burns.

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

ACUTE TOXICITY: Irritation, burns, vomiting, diarrhea, delayed lung edema, irreversible eye and tissue injury

CHRONIC TOXICITY: Irritation, dermatitis, conjunctivitis, tooth erosion, respiratory distress, hypotension, cyanosis, bronchitis, liver or kidney effects, copper deficiency

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, liver, kidney and respiratory disorders

## III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Ammonium Molybdate	
CAS NO.:	12027-67-7	PERCENT: 12
COMPONENT:	Sulfuric Acid	
CAS NO.:	7664-93-9	PERCENT: 23
COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: 65

## IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Removed contaminated clothing. Seek medical advice.  
INGESTION: Do not induce vomiting. If victim is conscious and alert, give large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.  
INHALATION: Remove individual to fresh air. If necessary, give artificial respiration by mechanical means. Do not use mouth-to-mouth resuscitation. Seek medical advice.

## V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: Dry chemical or carbon dioxide

## VI. ACCIDENTAL RELEASE MEASURES

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

## VII. HANDLING AND STORAGE

Wear eye protection when working with this product.  
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.  
Exposure of this product to temperatures up to 49°C or below 0°C will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature, and should not be used beyond expiration date.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 1 mg/m<sup>3</sup> TWA sulfuric acid  
ACGIH TLV: 0.2 mg/m<sup>3</sup> TWA sulfuric acid  
PROTECTIVE EQUIPMENT: Impact- and splash-resistant eyewear; Protective gloves compatible with the hazardous reagent constituents identified on this SDS.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None  
SOLUBILITY IN WATER: Miscible pH: < 0.5 SPECIFIC GRAVITY: 1.26  
BOILING POINT: 132°C MELTING / FREEZING POINT: 0°C  
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

## X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: bases, oxidizers, amines, organic material  
HAZARDOUS DECOMPOSITION PRODUCTS: ammonia gas, hydrogen gas, oxides of nitrogen, molybdenum, and sulfur  
Stable under normal conditions.

## XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Soluble molybdenum compounds: ACGIH - Group A3, confirmed animal carcinogen with unknown relevance to humans.  
No other data available at this time.

## XII. ECOLOGICAL INFORMATION

Sulfuric acid is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.  
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

U.S. DOT, IATA, and IMDG: Dangerous Goods in Excepted Quantities  
Hazard Class: 8 UN No.: 1760 Packing Group: II

## XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: C - CORROSIVE

Risk Phrases: Causes severe burns.

Safety Phrases: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves, and eye/face protection. In case of contact with skin or eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

CANADIAN INFORMATION:

WHMIS Classification: D1B, E

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

U.S. INFORMATION:

RCRA: Contains RCRA regulated substances. EPA Waste ID No.: D002

OSHA: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard (29 CFR 1910.1200).

SARA: This product contains an ammonium salt which is subject to the reporting requirements of Section 313 of SARA Title III.

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

## XVI. OTHER INFORMATION

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