



# SAFETY DATA SHEET

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R1605-1

## I. CHEMICAL IDENTIFICATION

### PRODUCT TRADE NAMES:

Bromine CHEMetrics® Refill and Vacu-vials® Ampoules  
Chlorine CHEMetrics® Refills and Vacu-vials® Ampoules  
Chlorine Dioxide CHEMetrics® Refill and Vacu-vials® Ampoules  
Hydrogen Peroxide CHEMetrics® Refill and Vacu-vials® Ampoules  
Hypochlorite CHEMetrics® Refill  
Ozone CHEMetrics® Refill and Vacu-vials® Ampoules  
Peracetic Acid CHEMetrics® Refill and Vacu-vials® Ampoules

### PRODUCT PART NOS.:

R-1605, K-1613 (Ampoules), R-2500, R-2504, R-2509,  
K-2513 (Ampoules), K-2523 (Ampoules), K-2703 (Ampoules), R-2705,  
R-5502, K-5513 (Ampoules), R-5808, R-7404, K-7423 (Ampoules),  
R-7904, K-7913 (Ampoules)

### COMPONENTS OF KIT CATALOG NOS.:

I-2001, I-2005, I-2019, I-2020, K-1605, K-1613, K-2500, K-2504,  
K-2504A, K-2504B, K-2504C, K-2504D, K-2513, K-2523, K-2703,  
K-2705, K-5502, K-5513, K-5808, K-5816, K-7404, K-7423, K-7904,  
K-7913

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 CHEMet™ ampoule contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ ampoule contains approximately 2 mL of liquid reagent sealed under vacuum.

## II. HAZARDS IDENTIFICATION

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

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: Irritation, dermatitis

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No information available

## III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Potassium Phosphate Monobasic	
CAS NO.:	7778-77-0	PERCENT: < 2
COMPONENT:	Acetone	
CAS NO.:	67-64-1	PERCENT: < 4
COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: > 94
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: 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: > 75°C AUTOIGNITION POINT: Not available  
FLAMMABILITY LIMITS: UPPER: Not available LOWER: Not available  
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

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.

Fragile. Liquid in glass. Handle with care.

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, the product should not be used beyond expiration date, and Vacu-vials ampoules should be stored in a tips down position.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 1000 ppm TWA Acetone

ACGIH TLV: 500 ppm TWA Acetone

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 pink ODOR: None  
SOLUBILITY IN WATER: Complete pH: 6.3 SPECIFIC GRAVITY: 1.0  
BOILING POINT: 94°C MELTING / FREEZING POINT: -7°C  
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

## X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids, strong bases

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon

Stable under normal conditions.

## XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Acetone: ACGIH – Group A4, not classifiable as a human carcinogen

No other data available at this time.

## XII. ECOLOGICAL INFORMATION

Acetone is expected to volatilize or biodegrade rapidly.

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

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

## XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: None

Risk / Safety Phrases: None

CANADIAN INFORMATION:

WHMIS Classification: D2B

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

U.S. INFORMATION:

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

## XVI. OTHER INFORMATION

SDS Creation Date: 2012-12-14

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

**After Hours Emergency Nos.: (703) 447-9550**  
**(540) 272-3874**  
**Creation Date: 08/31/11 (2999-2)**  
**Revision Date: 10/07/11**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: ACTIVATOR SOLUTION

CATALOG NOS.: A-1600, A-2500, A-2500V, A-5501, A-7400, A-7900

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of various analytes in water. Each bottle contains approximately 9 mL of accessory solution.

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

### II. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation, nausea, diarrhea

CHRONIC TOXICITY: Irritation, iodism

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pregnancy-  
 Chronic ingestion during pregnancy can cause fetal harm or death.

### III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Potassium Iodide  
 CAS NO.: 7681-11-0 PERCENT: 10.0 - 12.0

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

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.

### 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 cupfuls 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

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 120°F (49°C) or even below 32°F (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 & ACGIH TLV: None established

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

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None

SOLUBILITY IN WATER: Miscible pH: 11

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

VAPOR PRESSURE: Not determined SPECIFIC GRAVITY: > 1

VAPOR DENSITY: Not determined

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids, strong bases, strong reducing agents  
 HAZARDOUS DECOMPOSITION PRODUCTS: oxides of potassium and iodine

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

Not regulated.

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: None

Risk/Safety Phrases: None

CANADIAN INFORMATION:

WHMIS Classification: D2A

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

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.