



SAFETY DATA SHEET

R2505-1
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I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAMES:

Chlorine CHEMetrics® Refill, ULR CHEMetrics® Refill, and VACUettes® Refills
Hydrogen Peroxide CHEMetrics® Refill
Ozone CHEMetrics® Refill

PRODUCT PART NOS.:

R-2505, R-2505A, R-2505B, R-2505C, R-2505D, R-2505V, R-2511,
R-5504, R-7402

COMPONENTS OF KIT CATALOG NOS.:

K-2505, K-2505A, K-2505B, K-2505C, K-2505D, K-2505V, K-2511,
K-5504, K-7402

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™ and VACUette™ 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.

II. HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin, and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed.

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

ACUTE TOXICITY: Irritation, cough, blindness, weakness, nausea, vomiting, convulsions

CHRONIC TOXICITY: Irritation, dermatitis, CNS effects causing headaches or impaired vision

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin and respiratory disorders

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Formaldehyde
CAS NO.: 50-00-0 PERCENT: 0.1

COMPONENT: Potassium Phosphate Monobasic
CAS NO.: 7778-77-0 PERCENT: 2

COMPONENT: Methanol
CAS NO.: 67-56-1 PERCENT: 3

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: > 93

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 carcinogen hazard.

IV. FIRST AID MEASURES

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

INGESTION: Induce vomiting if instructed by medical personnel. 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. If not breathing, give artificial respiration (do not use mouth-to-mouth resuscitation). If breathing is difficult, administer oxygen and seek medical advice.

V. FIRE FIGHTING MEASURES

FLASH POINT: Not available AUTOIGNITION POINT: Not available
FLAMMABILITY LIMITS: UPPER: Not available LOWER: Not available
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

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, and should not be used beyond expiration date.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 0.75 ppm Formaldehyde TWA, 200 ppm Methanol TWA

ACGIH TLV: 0.3 ppm C Formaldehyde, 200 ppm Methanol TWA

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

OTHER CONTROL MEASURES: See OSHA Standard 29 CFR 1910.1048 for control measures related to formaldehyde exposure.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None

SOLUBILITY IN WATER: Complete pH: 4 SPECIFIC GRAVITY: 1

BOILING POINT: 95°C MELTING / FREEZING POINT: 0°C

VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: toxic fumes, oxides of carbon
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS:

Formaldehyde: IARC - Group 1, carcinogenic to humans. Formaldehyde gas: ACGIH - Group A2, suspected human carcinogen; NTP - reasonably anticipated to be a human carcinogen; California Proposition 65 - carcinogen

TOXICOLOGICAL STATUS:

Methanol: NTP - reasonably anticipated to be a developmental toxicant; California Proposition 65 - reproductive toxicant (developmental)

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Methanol, in high concentrations, is dangerous to aquatic life and is expected to 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: Xn - HARMFUL

Risk Phrases: Harmful by inhalation, in contact with skin, and if swallowed.

Harmful: possible risk of irreversible effects through inhalation, in contact with skin, and if swallowed.

Safety Phrases: Wear suitable protective clothing, gloves, and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). If swallowed, seek medical advice immediately and show container or label.

CANADIAN INFORMATION:

WHMIS Classification: D1A, D2A, D1B, D2B

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

XV. REGULATORY INFORMATION (continued)

U.S. INFORMATION:

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 methanol and formaldehyde solution which are subject to the reporting requirements of Section 313 of SARA Title III.

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California as a carcinogen. This product contains a chemical known to the state of California as a reproductive toxicant (developmental).

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

XVI. OTHER INFORMATION

SDS Creation Date: 2012-11-13

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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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

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