



SAFETY DATA SHEET

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K9903-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME: Zinc Vacu-vials® Ampoules

PRODUCT PART NOS.: K-9903 (Ampoules), K-9923 (Ampoules)

COMPONENTS OF KIT CATALOG NOS.: K-9903, K-9923

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 K-9903 Vacu-vial™ ampoule contains approximately 2 mL of liquid reagent sealed under vacuum. Each K-9923 Vacu-vial™ ampoule contains approximately 4.5 mL of liquid reagent sealed under vacuum.

II. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system, and skin.

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

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: Irritation, dermatitis

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

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Sodium Hydroxide	
CAS NO.:	1310-73-2	PERCENT: 1
COMPONENT:	Boric Acid	
CAS NO.:	10043-35-3	PERCENT: 4
COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: 95

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. Induce vomiting if directed to do so by medical personnel. Seek medical advice.

INHALATION: Remove individual to fresh air. If necessary, provide oxygen or artificial respiration. 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, 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 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: 2 mg/m³ TWA sodium hydroxide

ACGIH TLV: 2 mg/m³ C sodium hydroxide

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: 1.02

SOLUBILITY IN WATER: Complete pH: 9

BOILING POINT: 110°C MELTING / FREEZING POINT: 3°C

VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong bases, strong oxidants

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of boron and sodium

Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Boric acid may be toxic to aquatic life.

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 item is not regulated for transport.

Note: This item may be shipped as part of a test kit or reagent set composed of various chemical reagents. If so, the following classification may be applicable: Hazard Class 9, UN 3316 Chemical Kit, PG II or III

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: Xi - IRRITANT

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

Safety Phrases: Avoid contact with skin and eyes. 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.

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

SDS Creation Date: 2013-03-15

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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S9900-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME: Indicator Solution for Zinc Vacu-vials® Kit

PRODUCT PART NO.: A-9900

COMPONENT OF KIT CATALOG NOS.: K-9903, K-9923

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 indicator solution contains approximately 18 mL of liquid reagent.

II. HAZARDS IDENTIFICATION

Harmful if swallowed.

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

ACUTE TOXICITY: Irritation, nausea, vomiting, central nervous system effects

CHRONIC TOXICITY: Irritation, dermatitis

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

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Zincon, Monosodium Salt

CAS NO.: 62625-22-3 PERCENT: 0.4

COMPONENT: Ethylene Glycol

CAS NO.: 107-21-1 PERCENT: 99.6

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. Induce vomiting if directed to do so by medical personnel. Seek medical advice.

INHALATION: Remove individual to fresh air. If necessary, provide oxygen or artificial respiration. 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, 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 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: None

ACGIH TLV: 100 mg/m³ C ethylene glycol

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: Deep red/purple

ODOR: None SPECIFIC GRAVITY: 1.1

SOLUBILITY IN WATER: Miscible pH: 5.8

BOILING POINT: 197°C MELTING / FREEZING POINT: -13°C

VAPOR PRESSURE: 0.05 mm Hg @ 20°C (ethylene glycol)

VAPOR DENSITY: 2.14 (ethylene glycol)

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong oxidants, strong bases, strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon, nitrogen, and sulfur

Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Ethylene glycol: ACGIH - Group A4, not classifiable as a human carcinogen

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Ethylene glycol biodegrades rapidly, may leach to ground water, and is not expected to bioconcentrate.

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 item is not regulated for transport.

Note: This item may be shipped as part of a test kit or reagent set composed of various chemical reagents. If so, the following classification may be applicable.:
Hazard Class 9, UN 3316 Chemical Kit, PG II or III

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: Xn - HARMFUL

Risk Phrases: Harmful if swallowed.

Safety Phrases: 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: D2A

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

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 ethylene glycol 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

SDS Creation Date: 2013-03-15

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