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## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: Dissolved Oxygen CHEMets® Refill, Vacu-vials® Ampoules

PART NOS.: K-7503, R-7512, K-7513

COMPONENTS OF TEST KITS: K-7503, K-7512, K-7513

DESCRIPTION: Reagent ampoules for the determination of dissolved oxygen in water. Each CHEMet™ contains approximately 0.5 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ contains approximately 2 mL of liquid reagent sealed under vacuum.

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

### II. HAZARDS IDENTIFICATION

May be harmful if swallowed.

ACUTE TOXICITY: Irritation, nausea, diarrhea

CHRONIC TOXICITY: Ingestion of large amounts of diethylene glycol can cause liver or kidney lesions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: liver or kidney disorders

### III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Indigo Carmine	
CAS NO.:	860-22-0	PERCENT: < 0.2

COMPONENT:	Potassium Hydrogen Phthalate	
CAS NO.:	877-24-7	PERCENT: 1.0

COMPONENT:	Diethylene Glycol	
CAS NO.:	111-46-6	PERCENT: 22.0

COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: > 76

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: 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

**Always wear eye protection when working with these ampoules.**

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

Fragile. Liquid in glass. Handle with care.

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 & ACGIH TLV: None listed

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

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Yellow ODOR: None

SOLUBILITY IN WATER: Complete pH: 3.5

BOILING POINT: 110°C MELTING POINT: -1°C

VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.01

VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Strong acids, strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes, oxides of carbon and potassium

Stable under normal conditions.

### XI. TOXICOLOGICAL INFORMATION

Carcinogen Status: None

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.

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: None

Risk Phrases: None

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

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.

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