

**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: 10/15/88 (2083-15)**  
**Revision Date: 11/22/10**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAMES: GLYCOL CHEMets® and VACUettes®

CATALOG NOS.: R-4815 and R-4815C

DESCRIPTION: Reagent ampoules for the determination of glycol in water. Each CHEMet™ and VACUette™ contains approximately 0.5 mL of liquid reagent sealed under vacuum.

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

### II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Purpald®  
 CAS NO.: 1750-12-5 PERCENT: < 1.0

COMPONENT: Potassium Hydroxide  
 CAS NO.: 1310-58-3 PERCENT: 3.0

COMPONENT: Deionized Water  
 CAS NO.: 7732-18-5 PERCENT: > 96.0

### III. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation, coughing, vomiting, diarrhea, eye and tissue damage

CHRONIC TOXICITY: Dermatitis, conjunctivitis, destructive effect on tissues  
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin disorders

### 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 immediately.

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 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 must not be used after expiration date specified on refill.

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: None listed

ACGIH TLV: 2 mg/m<sup>3</sup> C Potassium Hydroxide

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: Straw or colorless ODOR: None  
 SOLUBILITY IN WATER: Complete pH: 13.5  
 BOILING POINT: 105°C MELTING POINT: 0°C  
 VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.0  
 VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong acids, metals  
 HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen gas, oxides of potassium, carbon, nitrogen and sulfur  
 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

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: Xi - IRRITANT

Risk Phrases: Irritating to skin and eyes.

Safety Phrases: Avoid contact with skin and eyes. 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 the label where possible).

CANADIAN INFORMATION:

WHMIS Classification: E

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

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).

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.

*CHEMets® and VACUettes® are registered trademarks of CHEMetrics, Inc.  
 Purpald® is a registered trademark of Aldrich Chemical Company.*

**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: 10/25/88 (2086-13)**  
**Revision Date: 11/22/10**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: GLYCOL ACTIVATOR SOLUTION

CATALOG NOS.: A-4400 and A-4404

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

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

### II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Periodic Acid  
CAS NO.: 10450-60-9 PERCENT: < 37.0

COMPONENT: Deionized Water  
CAS NO.: 7732-18-5 PERCENT: > 63.0

### III. HAZARDS IDENTIFICATION

Danger! Corrosive. Causes burns.  
ACUTE TOXICITY: Irritation, burns, headache, nausea, vomiting, conjunctivitis  
CHRONIC TOXICITY: Irritation  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin disorders

### IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for at least 30 minutes 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 attention.  
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: 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

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 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: Colorless/slightly cloudy ODOR: None  
SOLUBILITY IN WATER: Complete  
pH: A-4400: 1.67; A-4404: 1.32  
SPECIFIC GRAVITY: A-4400: 1.07; A-4404: 1.36  
BOILING POINT: 104°C MELTING POINT: 10°C  
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Strong bases, reducing agents  
HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen iodide, iodide ions  
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

US DOT, IATA, and IMDG: Dangerous Goods In Excepted Quantities  
Hazard Class: 9 UN No.: 3316 Packing Group: III

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:  
EU Symbols: C - CORROSIVE, O - OXIDIZING  
Risk Phrases: Causes burns. Contact with combustible material may cause fire.  
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 the label where possible). Keep away from combustible materials.

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

U.S. INFORMATION:  
RCRA: Contains RCRA regulated substances. EPA Waste ID Nos.: D001, D002  
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.

**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: 10/25/88 (2087-13)**  
**Revision Date: 11/22/10**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: GLYCOL ACTIVATOR SOLUTION

CATALOG NOS.: A-4401 and A-4406

DESCRIPTION: An accessory used in conjunction with reagent ampoules in the determination of glycol in water. Each bottle contains approximately 3.4 grams of solid chemical.

NFPA RATINGS: HEALTH : 2 FLAMMABILITY: 0 REACTIVITY: 1

### II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Sodium Persulfate  
CAS NO.: 7775-27-1 PERCENT: 100

### III. HAZARDS IDENTIFICATION

Harmful if swallowed. Avoid inhalation and contact with skin and eyes.  
ACUTE TOXICITY: Irritation, headache, nausea, diarrhea, vomiting  
CHRONIC TOXICITY: Irritation, allergic reactions, sensitization, dermatitis  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergies and skin, eye, and respiratory disorders

### 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 immediately.  
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

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 if applicable, should not be used beyond expiration date.

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: None listed  
ACGIH TLV: 0.1 mg/m<sup>3</sup> TWA Persulfate  
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: Crystalline powder APPEARANCE: White  
ODOR: None pH: 5.0 - 7.0 (1% solution)  
SOLUBILITY IN WATER: 549 g/L SPECIFIC GRAVITY: 2.6  
BOILING POINT: N/A MELTING POINT: Decomposes at 180°C

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong reducing agents, acids, strong bases, combustible materials, organic material  
HAZARDOUS DECOMPOSITION PRODUCTS: oxides of sodium and sulfur  
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

US DOT, IATA, and IMDG: Dangerous Goods In Excepted Quantities  
Hazard Class: 9 UN No.: 3316 Packing Group: III

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:  
EU Symbols: Xn - HARMFUL, O - OXIDIZING  
Risk Phrases: Harmful if swallowed. May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system, and skin. Contact with combustible material may cause fire.  
Safety Phrases: Keep away from combustible material. Avoid contact with skin and eyes. 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 the label where possible). If swallowed, seek medical advice immediately and show container or label.

CANADIAN INFORMATION:  
WHMIS Classification: D2A, D2B, C  
All chemical components of this product are listed on Canada's DSL.

U.S. INFORMATION:  
RCRA: Contains RCRA regulated substances. EPA Waste ID No.: D001  
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.



# SAFETY DATA SHEET

Page 1 of 1  
S4202-1  
Creation Date: 2012-10-02

## I. CHEMICAL IDENTIFICATION

### PRODUCT TRADE NAME:

Activator Solution for Formaldehyde CHEMetrics®, VACUettes® & Vacu-vials® Kits  
Activator Solution for Glycol CHEMetrics®, VACUettes® & Vacu-vials® Kits

PRODUCT PART NOS.: A-4202, A-4402

### COMPONENT OF KIT CATALOG NOS.:

K-4203, K-4403, K-4605, K-4605A, K-4605B, K-4605C, K-4605D,  
K-4815, K- 4815C

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 9 mL of liquid reagent.

## II. HAZARDS IDENTIFICATION

Corrosive. Causes severe burns. Harmful if swallowed.

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

ACUTE TOXICITY: Irritation and burns, coughing, vomiting, diarrhea, shortness of breath; symptoms may be delayed.

CHRONIC TOXICITY: Irritation, dermatitis, destructive effect on tissues

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

## III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Potassium Hydroxide  
CAS NO.: 1310-58-3 PERCENT: 57

COMPONENT: Deionized Water  
CAS NO.: 7732-18-5 PERCENT: 43

## 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 attention.

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: None listed

ACGIH TLV: 2 mg/m<sup>3</sup> C potassium 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: 1.4  
SOLUBILITY IN WATER: Miscible pH: 13 - 14  
BOILING POINT: 112°C MELTING / FREEZING POINT: < 0°C  
VAPOR PRESSURE: 2.6 mm Hg @ 20°C VAPOR DENSITY: > 1

## X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: acids, metals  
HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen gas, oxides of potassium  
Stable under normal conditions.

## XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None  
No other data available at this time.

## XII. ECOLOGICAL INFORMATION

No 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: 9 UN No.: 3316 Packing Group: II

## XV. REGULATORY INFORMATION

### EUROPEAN INFORMATION:

EU Symbols: C – CORROSIVE, Xn - HARMFUL

Risk Phrases: Causes severe burns. Harmful if swallowed.

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. If swallowed, seek medical advice immediately and show container or label. 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:

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).

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.

CHEMetrics®, VACUettes®, and Vacu-vials® are registered trademarks of CHEMetrics, Inc.

**CHEMetrics, Inc.**  
**4295 Catlett Rd., Midland, VA 22728**  
**(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: 2008-12-08 (2984-7)**  
**Revision Date: 2012-02-14**

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: COLOR COMPARATOR

CATALOG NOS.:

C-1805, C-1805E, C-1810, C-2810, C-2810A, C-2810B, C-2810C,  
 C-2810D, C-3810, C-3901, C-3902, C-4601, C-4601A, C-4601B,  
 C-4601C, C-4601D, C-4605, C-4605A, C-4605B, C-4605C, C-4605D,  
 C-4815, C-4815C, C-6502, C-6502D, C-7501, C-7501L, C-7511, C-7518,  
 C-7540, C-7599, C-9011

DESCRIPTION: Color standard ampoules used to quantify test results for the determination of various analytes in water. Each CHEMet™ and VACUette™ comparator ampoule contains approximately 1.7 mL of liquid reagent. Each ULR CHEMet™ comparator ampoule contains approximately 6.7 mL of liquid reagent.

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

### II. HAZARDS IDENTIFICATION

Harmful if swallowed.

ACUTE TOXICITY: Irritation, nausea, diarrhea, nerve depression

CHRONIC TOXICITY: Irritation, liver or kidney lesions

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

### III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Diethylene Glycol  
 CAS NO.: 111-46-6 PERCENT: ≤ 25.0

COMPONENT: Deionized Water  
 CAS NO.: 7732-18-5 PERCENT: > 74

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.**

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 120°F (49°C) or even below 32°F (0°C) will not create a safety hazard. For optimum analytical accuracy, these products 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 identified on this MSDS.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Various colors ODOR: None

SOLUBILITY IN WATER: Miscible pH RANGE: 2.5 - 11.5

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

VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.0

VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: acids, bases

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon

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: Xn - HARMFUL

Risk Phrases: Harmful if swallowed.

Safety Phrases: 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:

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.