



SAFETY DATA SHEET

Page 1 of 1
K9602-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAMES:

Sulfite Titrets® Ampoules
Sulfite in Wine Titrets® Ampoules
Thiosulfate Titrets® Ampoules

PRODUCT PART NOS.:

K-9602 (Ampoules), K-9605 (Ampoules), K-9610 (Ampoules),
K-9610W (Ampoules), K-9650 (Ampoules), K-9705 (Ampoules)

COMPONENTS OF KIT CATALOG NOS.:

K-9602, K-9605, K-9610, K-9610W, K-9650, K-9705

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 Titret™ ampoule contains approximately 1.1 mL of liquid reagent sealed under vacuum.

II. HAZARDS IDENTIFICATION

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

ACUTE TOXICITY: Irritation, nausea, vomiting

CHRONIC TOXICITY: None known

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin disorders

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Disodium Ethylenediamine Tetraacetate, Dihydrate
CAS NO.:	6381-92-6 PERCENT: < 1
COMPONENT:	Thyodene
CAS NO.:	9005-84-9 PERCENT: 1 - 2
COMPONENT:	Deionized Water
CAS NO.:	7732-18-5 PERCENT: > 95
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: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupsful of water. Never give anything by mouth to unconscious person. Seek medical advice.

INHALATION: Remove individual to fresh air.

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: Breaking a Titret™ ampoule tip when a valve assembly is not attached 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 & ACGIH TLV: None known

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 brown ODOR: None
SOLUBILITY IN WATER: Complete SPECIFIC GRAVITY: 1.0
pH: K-9602: 6.2, K-9605: 8.8, K-9610: 9.8, K-9610W: 11.6, K-9650: 12.3, K-9705: 10
BOILING POINT: 100°C MELTING / FREEZING POINT: 0°C
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon and nitrogen
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

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 Phrases: None

Safety Phrases: Avoid contact with skin and eyes. Wear eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

CANADIAN INFORMATION:

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: 2012-11-13

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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SAFETY DATA SHEET

Page 1 of 1
S9610T-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME:

Valve Assemblies for Permanganate Titrets® Kit
Valve Assemblies for Sulfite Titrets® Kits
Valve Assemblies for Sulfite in Wine Titrets® Kit
Valve Assemblies for Thiosulfate Titrets® Kit

COMPONENT OF KIT CATALOG NOS:

K-7630, K-9602, K-9605, K-9610, K-9610W, K-9650, K-9705

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 valve assembly contains approximately 0.05 mL of liquid reagent.

II. HAZARDS IDENTIFICATION

Corrosive. Causes burns.

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

ACUTE TOXICITY: Irritation or burns to eyes and skin

CHRONIC TOXICITY: Irritation

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin disorders

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Phosphoric Acid
CAS NO.: 7664-38-2 PERCENT: ≥ 85

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: ≤ 15

IV. FIRST AID MEASURES

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

INGESTION: Do not induce vomiting. If victim is conscious and alert, give large quantities of 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: Not applicable 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

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 & ACGIH TLV: 1 mg/m³ TWA phosphoric acid

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: Viscous Liquid APPEARANCE: Colorless
ODOR: None SPECIFIC GRAVITY: 1.68
SOLUBILITY IN WATER: Complete pH: 1
BOILING POINT: 158°C MELTING / FREEZING POINT: 21°C
VAPOR PRESSURE: 2 hPa @ 20°C VAPOR DENSITY: Not available

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong bases, strong oxidizing agents, metals
HAZARDOUS DECOMPOSITION PRODUCTS: oxides of phosphorous
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

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

XII. ECOLOGICAL INFORMATION

Phosphoric acid may leach to groundwater; acidity is reduced by water hardness, but phosphate may persist indefinitely.
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

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

Risk Phrases: Causes burns.

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 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

SDS Creation Date: 2012-11-13

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SAFETY DATA SHEET

Page 1 of 1
S9600-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAME:

Neutralizer Solution for Sulfite Titrets® Kits
Neutralizer Solution for Thiosulfate Titrets® Kit

PRODUCT PART NO.: A-9600

COMPONENT OF KIT CATALOG NOS.:

K-9602, K-9605, K-9610, K-9650, K-9705

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 neutralizer solution contains approximately 9 mL of liquid reagent.

II. HAZARDS IDENTIFICATION

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

ACUTE TOXICITY: Irritation, nausea, vomiting, diarrhea

CHRONIC TOXICITY: None known

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No information available

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	Sulfamic Acid	PERCENT:	16
CAS NO.:	5329-14-6		
COMPONENT:	Deionized Water	PERCENT:	84
CAS NO.:	7732-18-5		

IV. FIRST AID MEASURES

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

INGESTION: Do not induce vomiting. Seek medical advice.

INHALATION: Remove individual to fresh air. If breathing is difficult, give 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, 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 & ACGIH TLV: None known

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
SOLUBILITY IN WATER: Miscible pH: 4 SPECIFIC GRAVITY: 1.0
BOILING POINT: 105°C MELTING / FREEZING POINT: 0°C
VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong bases, strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of sulfur and nitrogen
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

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

XII. ECOLOGICAL INFORMATION

Sulfamic acid may be harmful 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

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 Phrases: None

Safety Phrases: 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 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: 2012-11-13

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