



SAFETY DATA SHEET

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K9203-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAMES: Sulfate Vacu-vials® Ampoules

PRODUCT PART NO.: K-9203 (Ampoules)

COMPONENTS OF KIT CATALOG NO.: K-9203

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 Vacu-vial™ ampoule contains approximately 0.6 mL of liquid reagent sealed under vacuum.

II. HAZARDS IDENTIFICATION

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

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: Irritation

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No information available

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: > 99

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 milk or water. Never give anything by mouth to an unconscious person.

INHALATION: Remove individual to fresh air.

V. FIRE FIGHTING MEASURES

FLASH POINT: >75°C (closed cup) 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 & ACGIH TLV: None

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: 1.0

SOLUBILITY IN WATER: Miscible pH: 7

BOILING POINT: 100°C MELTING / FREEZING POINT: 0°C

VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: none known

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon
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 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: None

Risk Phrases: None

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.

CANADIAN INFORMATION:

WHMIS Classification: Uncontrolled

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: 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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S6001-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAMES:

Acidifier Solution for Iron in Brine CHEMetrics® Kit
Acidifier Solution for Nitrate CHEMetrics® and Vacu-vials® Kits
Acidifier Solution for Sulfate Vacu-vials® Kit

PRODUCT PART NOS.: A-6001, A-6901, A-9200

COMPONENTS OF KIT CATALOG NOS.: K-6002, K-6905, K-6913, K-9203

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 acidifier solution contains approximately 18 mL of liquid reagent.

II. HAZARDS IDENTIFICATION

Corrosive. Causes burns. Irritating to respiratory system.

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

ACUTE TOXICITY: Irritation, burns, labored breathing, pain, vomiting, permanent eye injury, cough, delayed lung edema

CHRONIC TOXICITY: Irritation, tooth erosion, bronchitis, dermatitis

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

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Hydrochloric Acid, Concentrated
CAS NO.: 7647-01-0 PERCENT: 54 - 69

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: 31 - 46

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. If necessary, give artificial respiration by mechanical means. Do not use mouth-to-mouth resuscitation. 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.

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: 5 ppm C hydrochloric acid

ACGIH TLV: 2 ppm C hydrochloric 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: Liquid APPEARANCE: Colorless

ODOR: Pungent SPECIFIC GRAVITY: 1.1

SOLUBILITY IN WATER: Complete pH: 0.1

BOILING POINT: 108.58°C (constant boiling azeotrope at 20.22% HCl)

MELTING / FREEZING POINT RANGE: -62 to -46°C

VAPOR PRESSURE: Not determined VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: bases, strong oxidizers, metals, reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen chloride, chlorine and hydrogen gas

Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Hydrochloric acid: IARC - Group 3, not classifiable as to its carcinogenicity to humans

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Hydrochloric acid hydrolyzes when exposed to water, will neutralize soil carbonate-based components, and evaporates from soil.

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: 8 UN No.: 1760 Packing Group: II

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: C - CORROSIVE

Risk Phrases: Causes burns. Irritating to respiratory system.

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: D1A, 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: 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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S9202-1

I. CHEMICAL IDENTIFICATION

PRODUCT TRADE NAMES:

Activator Powder for Sulfate Vacu-vials® Test Kit

PRODUCT PART NO.: A-9202

COMPONENT OF KIT CATALOG NO.: K-9203

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 powder contains approximately 14.5 g of powder.

II. HAZARDS IDENTIFICATION

Danger. Toxic if swallowed. Harmful by inhalation.

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

ACUTE TOXICITY: Irritation, nausea, vomiting, diarrhea, respiratory and cardiovascular disturbances, central nervous system effects

CHRONIC TOXICITY: Irritation, liver and kidney effects

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Heart, blood, liver, kidney and CNS disorders

III. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT: Barium Chloride, Dihydrate
CAS NO.: 10326-27-9 PERCENT: 100

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. Seek medical attention immediately.

INHALATION: Remove individual to fresh air. If necessary, give artificial respiration by mechanical means. Do not use mouth-to-mouth resuscitation. Seek medical attention immediately.

V. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable 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.

Wash thoroughly after handling. Avoid contact with eyes and skin.

Do not breathe dust.

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: 0.5 mg/m³ TWA barium

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: Fine crystals APPEARANCE: White
ODOR: None DENSITY: 3.86 g/cm³
SOLUBILITY IN WATER: Very soluble pH: 5 - 8 (5% solution)
BOILING POINT: 1560°C MELTING / FREEZING POINT: 962°C
VAPOR PRESSURE: Not available VAPOR DENSITY: Not available

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen chloride gas, chlorine gas
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Barium and soluble compounds: ACGIH - Group A4,
not classifiable as a human carcinogen.
No other data available at this time.

XII. ECOLOGICAL INFORMATION

Barium chloride can accumulate in plants when it exceeds the calcium and magnesium levels in soil.
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: 6.1 UN No.: 1564 Packing Group: III

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: T - TOXIC

Risk Phrases: Toxic if swallowed. Harmful by inhalation.

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. When using, do not eat or drink. 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: D1B

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

U.S. INFORMATION:

RCRA: Contains RCRA regulated substances. EPA Waste ID No.: D005

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 barium chloride 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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