

CHEMetrics, Inc.
Route 28, Calverton, VA 20138
(800) 356-3072 (540) 788-9026
Fax (540) 788-4856 E-mail techinfo@chemetrics.com

24 Hour Emergency Numbers: (703) 590-9204
(540) 439-3860
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MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAME: MANGANESE ACTIVATOR SOLUTION

CATALOG NO.: A-6500 and A-6501

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of manganese in water. Each bottle of A-6500 contains approximately 20 mL of accessory solution. Each bottle of A-6501 contains approximately 70 mL of accessory solution.

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

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Citric Acid, Monohydrate
CAS NO.: 5949-29-1 PERCENT: <11.0

COMPONENT: Sodium Sulfate
CAS NO.: 7757-82-6 PERCENT: <16.0

COMPONENT: Sodium Phosphate, Dibasic
CAS NO.: 7558-79-4 PERCENT: <27.0

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: >46.0

III. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: Irritation

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No data available.

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 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, water spray or foam

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.

Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT VALUE: None established

PROTECTIVE EQUIPMENT: Safety glasses.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None

SOLUBILITY IN WATER: Miscible pH: 9

BOILING POINT: 107°C MELTING POINT: 5°C

VAPOR PRESSURE: Not determined SPECIFIC GRAVITY: 1.05

VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of carbon, sulfur, sodium and phosphorus may be emitted.

Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None.

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Citric acid can cause nitrification inhibition. Sodium sulfate may persist indefinitely but diluted it is not expected to have a significant impact on the environment.

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: Xi - IRRITANT

Risk Phrases: Irritating to eyes.

Safety Phrases: Avoid contact with skin and eyes.

CANADA INFORMATION:

WHMIS Classification: D2B

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

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.