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## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: COD STANDARDS

CATALOG NOS.: B1030 and B1031

DESCRIPTION: 1000 and 10,000 ppm COD standard solutions. Each bottle contains approximately 200 mL of a standard solution.

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

### II. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation

CHRONIC TOXICITY: No data available.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No data available.

### III. COMPOSITION / INFORMATION ON INGREDIENTS

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

COMPONENT: Deionized Water  
CAS NO.: 7732-18-5 PERCENT: >99.0

### 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

Wash thoroughly after handling. Avoid contact with eyes and skin. 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. However, for optimum analytical accuracy, the products must be stored in the dark and at 36-46°F (2-8°C), 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: Colorless  
ODOR: None SOLUBILITY IN WATER: Complete  
pH: 4 - 4.2 SPECIFIC GRAVITY: 1.0  
BOILING POINT: 100°C MELTING POINT: 0°C  
VAPOR PRESSURE: N/A VAPOR DENSITY: N/A

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Nitric acid  
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.

### 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/Safety Phrases: None

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

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.