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## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL IDENTIFICATION

TRADE NAME: FORMALDEHYDE ACTIVATOR SOLUTION

CATALOG NO.: A-4202

DESCRIPTION: An accessory solution used in conjunction with reagent ampoules in the determination of formaldehyde in water. Each bottle contains approximately 10 mL of accessory solution.

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

### II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Potassium Hydroxide  
CAS NO.: 1310-58-3 PERCENT: 80.0

COMPONENT: Deionized Water  
CAS NO.: 7732-18-5 PERCENT: 20.0

### III. HAZARDS IDENTIFICATION

Danger! Corrosive. Causes burns. Harmful if swallowed.  
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.

### IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Seek medical attention.  
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 needed, provide artificial respiration and seek medical attention.

### 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

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

ACGIH TLV: 2 mg/m<sup>3</sup> Potassium Hydroxide  
PROTECTIVE EQUIPMENT: Safety glasses and gloves.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless ODOR: None  
SOLUBILITY IN WATER: Miscible pH: 13 - 14  
BOILING POINT: 1320°C (KOH) MELTING POINT: 360°C (KOH)  
VAPOR PRESSURE: 1 mm Hg @ 719°C (KOH)  
SPECIFIC GRAVITY: 2.0 (KOH)

### X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: acids, metals  
HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition hydrogen gas and oxides of potassium may be emitted.  
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: 49 CFR, 173.4 Exceptions for Small Quantities  
IATA: Dangerous Goods in Excepted Quantities  
Hazard Class: 8 ID: UN 1760 GROUP: II

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:  
EU Symbols: C - CORROSIVE  
Risk Phrases: Causes severe burns. Harmful if swallowed.  
Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
CANADA INFORMATION:  
WHMIS Classification: D1B, E  
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.