

CAT. NO. 44569

## MATERIAL SAFETY DATA SHEET

PO#: CHECK # 087669  
HACH ORDER#: 996190MSDS DATE: 4/01/97  
CHANGE NO.: 18593For Assistance, Contact:  
Regulatory Affairs Dept.  
PO Box 907 Ames, IA 50010  
(800) 227-4224HACH COMPANY  
PO BOX 907  
AMES, IA 50010Emergency Telephone #  
Rocky Mountain Poison Ctr.  
(303) 623-5716

VFS 1139

## I. PRODUCT IDENTIFICATION

PRODUCT NAME: Nitrate Electrode Filling Solution  
CAS NO.: NA CHEMICAL NAME: Not applicable  
FORMULA: Not applicable CHEMICAL FAMILY: Not applicable  
MSDS NUMBER: M01236

## II. INGREDIENTS

Potassium Chloride  
PCT: <10 CAS NO.: 7447-40-7 SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: May cause irritationOther components, each  
PCT: <1 CAS NO.: NA SARA: NOT LISTED  
TLV: Not applicable PEL: Not applicable  
HAZARD: Not applicableDeionized (Demineralized) Water  
PCT: to 100 CAS NO.: 7732-18-5 SARA: NOT LISTED  
TLV: Not applicable PEL: Not applicable  
HAZARD: None

Any component of this mixture not specifically listed (eg. "other components") is not considered to present a carcinogen hazard.

## III. PHYSICAL DATA

STATE: liquid APPEARANCE: Clear, colorless ODOR: None  
SOLUBILITY IN: WATER: Miscible ACID: Miscible OTHER: Not determined  
BOILING POINT: 103°C MELTING PT.: -3°C SPEC GRAVITY: 1.05 pH: 5.8  
VAPOR PRESSURE: Not determined VAPOR DENSITY (air=1): ND  
EVAPORATION RATE: ND METAL CORROSIVITY - ALUMINUM: 0.003 in/yr  
STEEL: 0.007 in/yr STABILITY: Stable  
STORAGE PRECAUTIONS: Store tightly closed.

## IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: Not applicable METHOD: NA  
FLAMMABILITY LIMITS - LOWER: NA UPPER: NA  
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None  
SHOCK SENSITIVITY: None AUTOIGNITION PT.: NA  
EXTINGUISHING MEDIA: Use media appropriate to the surrounding fire conditions.  
FIRE/EXPLOSION HAZARDS: None reported  
HAZARDOUS DECOMP. PRODUCTS: None reported  
OXIDIZER: No NFPA Codes: Health: 0 Flammability: 0 Reactivity: 0  
CONDITIONS TO AVOID: Incompatible with bromine trifluoride

## V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: Irritating to eyes.  
ACUTE TOXICITY: Practically non-toxic  
ROUTES OF EXPOSURE: Not applicable  
TARGET ORGANS: Not applicable  
CHRONIC TOXICITY: Not determined  
ROUTES OF EXPOSURE: Not determined  
TARGET ORGANS: Not determined  
CANCER INFORMATION: Not applicable  
ROUTES OF EXPOSURE: Not applicable  
TARGET ORGANS: Not applicable  
OVEREXPOSURE: May cause eye irritation. Very large doses may cause stomach disturbances, weakness, circulatory and heart problems.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None reported

## VI. PRECAUTIONARY MEASURES

Avoid contact with eyes and skin.  
Wash thoroughly after handling.  
PROTECTIVE EQUIPMENT: adequate ventilation, lab grade goggles, disposable latex gloves

## VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Flush skin with plenty of water.  
INGESTION: Give large quantities of water. Call physician immediately.  
INHALATION: Not applicable

## VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Dilute with water. Pour down the drain with excess water.  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS

## IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: NA ID: NA GROUP: NAI.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: NA ID: NA GROUP: NAI.M.O. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: NA ID: NA GROUP: NA

## X. REFERENCES

- 1) TLV's Threshold Limit Values and Biological Exposure Indices for 1989. American Conference of Governmental Industrial Hygienists
- 2) Air Contaminants, Federal Register, Vol. 54, No. 12, Thursday, 19, 1989. pp. 2332-2983.
- 3) Technical judgment
- 4) In-house information