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Product ID:D/T REF ELECTRODE INNER FILL SOLUTION MSDS Date:02/07/1994 FSC:6630 NIIN:01-348-6467 MSDS Number: BXCCS === Responsible Party === Company Name: ORION RESEARCH INC Address:529 MAIN STREET City:BOSTON State:MA ZIP:02129 Country:US Info Phone Num:617-242-3900/800-225-1480 Emer gency Phone Num:617-242-3900 CAGE:014G6 === Contractor Identification === Company Name: ORION RESEARCH, INC. Address:500 CUMMINGS CENTER Box:City:BEVERLY State:MA ZIP:01915-6199 Country:US Phone:978-232-6000 CAGE:014G6

Ingred Name:POTASSIUM NITRATE CAS:7757-79-1 RTECS #:TT3700000 Fraction by Wt: 17.1% Other REC Limits:NONE RECOMMENDED

Ingred Name:SILVER CHLORIDE CAS:7783-90-6 RTECS #:VW3563000 Fraction by Wt: TRACE Other REC Limits:NONE RECOMMENDED

Ingred Name:GLYCOLS, POLYETHYLENE, MONO(P-(1,1,3,3-TETRAMETHYL BUTYL)PHENYL) ETHER (TRITON X100) CAS:9002-93-1 RTECS #:MD0907700 Fraction by Wt: TRACE Other REC Limits:NONE RECOMMENDED

Ingred Name:NAPHTHOL GREEN B CAS:19381-50-1 RTECS #:LJ8930000 Fraction by Wt: 0.5% Other REC Limits:NONE RECOMMENDED

Ingred Name:POTASSIUM CHLORIDE CAS:7447-40-7 RTECS #:TS8050000 Fraction by Wt: 5.0% Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM CHLORIDE CAS:7647-14-5 RTECS #:VZ4725000 Fraction by Wt: 0.4% Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 77.0% Other REC Limits:NONE RECOMMENDED OSHA PEL:NOT RELEVANT ACGIH TLV:NOT RELEVANT

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS:EYES, S KIN, CNS. ACUTE-EYES: MAY CAUSE IRRITATION. INHALATION: UNLIKELY IN NORMAL USE. INGESTION: LARGE AMOUNTS TAKEN INTERNALLY CAN BE FATAL OR MAY CAUSE DIZZINESS, VOMITING, WEAKNESS AND COLLAPSE. SKIN: UNKNOWN. CHRONIC-CAN CAUSE KIDNEY DAMAGE. Explanation of Carcinogenicity:NONE Effects of Overexposure: IRRITATION, DIZZINESS, VOMITING, HEADACHE, WEAKNESS, NAUSEA Medical Cond Aggravated by Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE HEART OR KIDNEYS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES. First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL: IF CONSCIOUS, INDUCE VOMITING. GET MEDI CAL ATTENTION. Flash Point:NONE Extinguishing Media:WATER SPRAY, CARBON DIO XIDE, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:NITRATE MAY RENDER OTHER MATERIALS MORE COMBUSTIBLE IF ALLOWED TO DRY OUT UPON THEM. Spill Release Procedures: PREVENT SKIN AND EYE CONTACT. VENTILATE AREA. DILUTE SPILL WITH WATER AN D COVER WITH SODA ASH. MIX AND TRANSFER TO A SUITABLE CONTAINER. NEUTRALIZE WITH HYDROCHLORIC ACID AND WASH DOWN DRAIN WITH EXCE SS WATER, IF PERMITTED. Neutralizing Agent:SODA ASH THEN HYDROCHLORIC ACID 

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE. KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM INCOMPATIBLE MATERIALS. Other Precautions:WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF CHILDREN. DO NOT HEAT TO DRYNESS. Respiratory Protection:NONE NORMALLY REQUIRED. Ventilation:ADEQUATE Protective Gloves:NONE NORMALLY REQUIRED. Eye Protection:SAFETY GLASSES Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, PROTECTIVE CLOTHING Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety an d Health PH RANGE: 5.5 - 7.5. HCC:N1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:212F,100C Melt/Freeze Pt:M.P/F.P Text:24.8F,-4.0C Spec Gravity:1.0 pH:5.5 Solubility in Water:MISCIBLE Appearance and Odor: GREEN LIQUID - ODORLESS Stability Indicator/Materials to Avoid:YES REDUCING AGENTS, SODIUM ACETATE, TRICHLOROETHYLENE, CHARCOAL **Stability Condition** to Avoid:HEATING TO DRYNESS Hazardous Decomposition Products:OXIDES OF NITROGEN

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. NEUTRALIZED SOLUTION MAY BE WASHED DOWN DRAIN WITH LARGE AMOUNT OF WATER, IF PERMITTED.

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