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## ORION RESEARCH INC -- D/T REF ELECTRODE INNER FILL SOLUTION -- 6630-01-348-6467

======== Product Identification ============

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

Em

ergency 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

======= Composition/Information on Ingredients ========

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 RE

## C 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

RTE

CS #: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

========= Hazards Identification =============

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,

SKIN, 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 INCREAS **ED 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. ========== Fire Fighting Measures =========================== Flash Point:NONE Extinguishing Media:WATER SPRAY, CARBON D IOXIDE, 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. ======== Accidental Release Measures ============ Spill Release Procedures: PREVENT SKIN AND EYE CONTACT. VENTILATE AREA. DILUTE SPILL WITH WATER AND 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 ==========================

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 BEFOR

E EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF CHILDREN. DO NOT HEAT TO DRYNESS. ====== Exposure Controls/Personal Protection ======== 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 and Health PH RANGE: 5.5 - 7.5. ======== Physical/Chemical Properties ============ 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 and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES REDUCING AGENTS, SODIUM ACETATE, TRICHLOROETHYLENE, CHARCOAL Stability Conditi on to Avoid:HEATING TO DRYNESS Hazardous Decomposition Products: OXIDES OF NITROGEN

======== Disposal Considerations =============

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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