View NSN Online: https://aerobasegroup.kr/nsn/5960-01-074-6110 COMMUNICATION & PWR INDUSTRIES(FRMLY VARIAN ASSOC) -- VDU1067 ELECTRON TUBE --5960-01-074-6110 ============= Product Identification ================== Product ID:VDU1067 ELECTRON TUBE MSDS Date:01/04/1996 FSC:5960 NIIN:01-074-6110 MSDS Number: BYHJT === Responsible Party === Company Name: COMMUNICATION & PWR INDUSTRIES (FRMLY VARIAN ASSOC) Address: BEVERLY MICROWAVE DIV, 150 SOHIER RD City:BEVERLY State:MA ZIP:01915-559 Country:US Info Phone Num:508-922-6000 EXT.285 Emergency Phone Num:508-922-6000 EXT.285 Preparer's Name: FRANK E. TROJAN CAGE:KO568 === Contractor Identification === Company Name: COMMUNICATION & PWR INDUSTRIES (FRMLY VARIAN ASSOC) Address:BEVERLY MICROWAVE DIV, 150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Country:US Phone:508-922-6000 EXT.285 CAGE:KO568 Company Name: COMMUNICATIONS AND POWER INDUSTRIES INC Address:150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Country:US Phone:978-922-6000 EXT.285 CAGE:88236 ======= Composition/Information on Ingredients ======== Ingred Name: NO INGREDIENT FOR THIS FORMULATION_INGREDIENT ========= Hazards Identification ===============

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:THE TUBE IS CONSIDERED TO BE A SEALED SOURCE & NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. ACUTE/CHRONIC OVEREX

POSURE:SIGNIFICANT EXPOSURE TO A RADIONUCLIDE
MAY CAUSE CANCER. BROKEN OR DISASS EMBLED RECEIVER PROTECTOR TUBES
MAY EMIT IONIZING RADIATION.
Explanation of Carcinogenicity:PER MSDS:CANCER CAUSING AGENT:NOT LISTED
IN NTP/IARC/OSHA.

Effects of Overexposure:TRITIUM IS A BETA EMITTER. IF EXPOSURE IS SUSPECTED SEEK MED ATTN, URINE ASSAY FOR TRITIUM IS THE ONLY MEANS OF MEASURING THE DEGREE OF EXPOSURE.

Medical Cond Aggravated by Exposure:HEALING OF DAMAGED TISSUES MAY BE PROL

ONGED.

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First Aid:SKIN CONTACT:FLUSH W/WATER FOR 15MINS. EYE CONTACT:FLUSH W/WATER FOR 15MINS. INHAL:REMOVE TO FRESH AIR. INGEST:A HIGH ORAL FLUID INTAKE SHOULD BE ADMINISTERED FOLLWOING TRITIUM EXPOSURE.

Lower Limits:N/APPLICABLE
Upper Limits:N/APPLICABLE

======== Accidental Release Measures ============

Spill Release Procedures

:WHEN HANDLING BROKEN TUBES WEAR PROTECTIVE
RUBBER GLOVES/CLOTHING.AVOID POSSIBLITY OF RUBBING RADIOACTIVE MATL
ONTO SKIN.WASH EXPOSED SKIN AFT HDNLG BRONEK TUBES CONTAINING
RADIOACTIVE MATL.AVOID INHA L GASES FRM BROKEN TUBES CONTAINING
TRITIUM.

========== Handling and Storage ==============

Handling and Storage Precautions:PROPER USE/SAFE OPERATING PRACT W/RESPECT TO MICROWAVE TUBES/EQPMT ARE RESPONSIBLITY OF EQPMT MFG & USERS OF SUCH TUBES/EQPMT.

TAKE APPROPRIATE ACTION.

Other Precautions:ALL PERSONS WHO WORK W/OR ARE EXPO TO MICROWAVE TUBE/EQPMT WHICH UTILIZES SUCH TUBES MUST TAKE PRECAUT TO PROT THEMSELVES AGAINST POSSIBLE SER BODILY INJURY.DON'T BE CARELESS AROUND SUCH PRODUCTS.PROD SPEC CONTAINS OPERATING INFO/PRECAUTION

====== Exposure Controls/Personal Protection ========

Respiratory Protection:IF SPILLED, WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR.

Ventilation:PLACE AFFECTED COMPONENT IN LOCAL EXHAUST.

Protective Gloves: DISPOSABLE GLOVES. Eve Protection: GOGGLES. Work Hygienic Practices: WASH HANDS. CARELESS OPERATION OF THIS DEVICE CAN RESULT IN INJURY OR DEATH. Supplemental Safety and Health THIS DEVICE IS A RECEIVER PROTECTOR TUBE WHICH CONTAINS SMALL AMT OF TRITIUM.TUBE IS CONSIDERED TO BE SEALED SOURCE & NORMAL HNDLG WILL PRESENT NO RADIATION PROBLEMS. DEVICE IS A MFG ARTICLE IAW 49CFR1 73.422.DEVICE IS AN ARTICLE IAW 29CFR1910.1200.DEVICE IS AN ELECTRON TUBE MFG IN COMPL IANCE W/10CFR30.15(A)(8). ========= Physical/Chemical Properties =========== HCC:A1 NRC/State Lic Num:20-02237-04 Boiling Pt:B.P. Text:-248C @1ATM Melt/Freeze Pt:M.P/F.P Text:-420F,-251C Decomp Temp:Decomp Text:N/APPLICABL Vapor Pres:18.317 ATM Vapor Density:N/APPLICAB Spec Gravity:6.0 pH:N/APPL Solubility in Water:100%, COMPLETE Appearance and Odor: RECEIVER PROTECTOR TUBE W/SM AMT OF TRITIUM; SEALED; ARTICLE; GAS, NO ODOR. (SUPPLE Corrosion Rate:N/APPLIC Stability and Reactivity Data ========= Stability Indicator/Materials to Avoid:YES OXIDIZERS. Stability Condition to Avoid: TEMPERATURES IN EXCESS OF 400C WILL CAUSE

DECOMPOSITION OF TIT2 W/RELEASE OF TRITIUM GAS.

Hazardous Decomposition Products: UNBOUND TRITIUM.

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

Waste Disposal Methods: DISPOSE OF BROKEN OR SPENT TUBES AS SPECIFIED IN 10 CFR PART 20 & 10 CFR PART 30. HAZ INGRED:TRITIUM (H3 OR T) AS TIT2, NO

RMAL-SOLID FORM, RADIOACTIVITY:50.0MICROCURIES, %:LESS THAN 1%. ANOTHER NCR LI C #:20-02237-03E.

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