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VARIAN ASSOCIATE INC;CROSSED FIELD & RECEIVER PROT -- VDX1141 ELECTRON TUBE --5960-01-044-9439

Product ID:VDX1141 ELECTRON TUBE MSDS Date:02/02/1996 FSC:5960 NIIN:01-044-9439 Status Code:A **MSDS Number: CJLMQ** === Responsible Party === Company Name: VARIAN ASSOCIATE INC; CROSSED FIELD & RECEIVER PROT Address:150 SOHIER RD City:BEVERLY State:MA ZIP:01915-1018 Countr v:US Info Phone Num:508-922-6000 EXT.285 Emergency Phone Num:508-922-6000 EXT.285 CAGE:88236 === Contractor Identification === 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 Contract Num:SP0960-96-M-3682 CAGE:88236

Ingred Name:TRITIUM Other REC Limits:NONE RECOMMENDED

Ingred Name:NON-HAZARDOUS INGREDIENTS Fraction by Wt

## : BALANCE Other REC Limits:NONE RECOMMENDED

| <ul> <li>LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE</li> <li>Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES</li> <li>Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO</li> <li>Health Hazards Acute and Chronic:SIGNIFICANT EXPOSURE TO A RADIONUCLIDE MAY CAUSE CANCER.</li> <li>Explanation of Carcinogenicity:NOT LISTED IN NTP, IARC OR OSHA PER MANUFACTURER.</li> <li>Effects of Overexposure:TRITIUM IS A BETA EMI</li> <li>TTER. IF EXPOSURE IS SUSPECTED, SEEK MEDICAL ATTENTION, URINE ASSAY FOR TRITIUM IS THE ONLY MEANS OF MEASURING THE DEGREE OF EXPOSURE.</li> <li>Medical Cond Aggravated by Exposure:HEALING OF DAMAGED TISSUES MAY BE</li> </ul> |
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| PROLONGED.   |
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| First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS<br>OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF<br>IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMO<br>VE TO   |
| FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: A<br>HIGH ORAL FLUID INTAKE SHOULD BE ADMINISTERED FOLLOWING TRITIUM<br>EXPOSURE.  |
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| Flash Point:NONFLAMMABLE<br>Lower Limits:NOT GIVEN   |
| Upper Limits:NOT GIVEN   |
| Extinguishing Media:NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.   |
| Fire Fighting Procedures:NONFLAMMABLE. USE STANDARD FIREFIGHTING<br>PROCEDURES FOR SURROUNDING MATERIALS I<br>N THE FIRE.  |
| Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.  |
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| Spill Release Procedures:WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR AND<br>PROPER PERSONAL PROTECTIVE CLOTHING/GLOVES/GOGGLES. COLLECT FOR<br>DISPOSAL.  |
| Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.   |
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Handling and Storage Precautions:DO NOT GET IN EYES, ON SKIN, MOUTH OR CLOTHING.

THIS DEVICE IS A RECEIVER PROTECTOR TUBE WHICH CONTAINS A SMALL AMOUNT OF TRITIUM. Other Precautions: TUBE IS CONSIDERED A SEALED SOURCE AND NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. THE DEVICE IS A MANUFACTURED ARTICLE. Respiratory Protection: IF SPILLED, WEAR RADIONUCLIDE CARTRIDGE **RESPIRATOR.** Ventilation: PLACE AFFECTED COMPONENT IN LOCAL EXHAUST. Protective Gloves: DISPOSABLE GLOVES Eye Protection:GOG GLES Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE. Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER. HCC:A2 Boiling Pt:B.P. Text:-414F,-248C Melt/Freeze Pt:M.P/F.P Text:-425F,-2 54C Vapor Pres:18.317 ATM Vapor Density:NOT GIVEN Spec Gravity:6.0 Evaporation Rate & amp; Reference: NOT GIVEN Solubility in Water:COMPLETE Appearance and Odor:GAS, NO ODOR Stability Indicator/Materials to Avoid:YES **OXIDIZERS** Stability Condition to Avoid: TEMPERATURES IN EXCESS OF 400C WILL CAUSE DECOMPOSITION OF TIT2 WITH RELEASE OF TRITIUM GAS.

Hazardous Decomposition Products:UNBOUND TRITIUM

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I Considerations ================

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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