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

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

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

Country :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

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

Ingred Name:TRITIUM

Other REC Limits: NONE RECOMMENDED

Ingred Name: NON-HAZARDOUS INGREDIENTS

Fraction by Wt:

BALANCE Other REC Limits:NONE RECOMMENDED
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LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SIGNIFICANT EXPOSURE TO A RADIONUCLIDE MAY CAUSE CANCER. Explanation of Carcinogenicity:NOT LISTED IN NTP, IARC OR OSHA PER MANUFACTURER. Effects of Overexposure:TRITIUM IS A BETA EMIT TER. IF EXPOSURE IS SUSPECTED, SEEK MEDICAL ATTENTION, 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 PROLONGED.
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First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOV E TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: A HIGH ORAL FLUID INTAKE SHOULD BE ADMINISTERED FOLLOWING TRITIUM EXPOSURE.
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Flash Point:NONFLAMMABLE 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 PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER. ==================================
Spill Release Procedures:WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR AND PROPER PERSONAL PROTECTIVE CLOTHING/GLOVES/GOGGLES. COLLECT FOR 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. T

HIS 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. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: IF SPILLED, WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR. Ventilation: PLACE AFFECTED COMPONENT IN LOCAL EXHAUST. Protective Gloves: DISPOSABLE GLOVES Eye Protection: GOGG **LES** 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. ========= Physical/Chemical Properties =========== HCC:A2 Boiling Pt:B.P. Text:-414F,-248C Melt/Freeze Pt:M.P/F.P Text:-425F,-25 4C Vapor Pres:18.317 ATM Vapor Density:NOT GIVEN Spec Gravity:6.0 Evaporation Rate & Dr. Reference: NOT GIVEN Solubility in Water: COMPLETE Appearance and Odor: GAS, NO ODOR ======== 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 WITH RELEASE OF TRITIUM GAS.

Hazardous Decomposition Products: UNBOUND TRITIUM

====== Disposal

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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