

VARIAN ASSOCIATES INC -- 4CW25000A ELECTRON TUBE -- 5960-00-478-7692

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Product Identification  
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Product ID:4CW25000A ELECTRON TUBE  
MSDS Date:06/10/1993  
FSC:5960  
NIIN:00-478-7692  
MSDS Number: BRGJQ  
=== Responsible Party ===  
Company Name:VARIAN ASSOCIATES INC  
Address:4130 LINDEN AVE SUITE 255  
City:DAYTON  
State:OH  
ZIP:45432-3034  
Country:US  
Info Phone Num:513-258-3930  
Emergency Phone Num:513-  
258-3930  
Preparer's Name:SUE A. DUGAN  
CAGE:1B538

==== Contractor Identification ===  
Company Name:COMMUNICATIONS AND POWER INDUSTRIES INC  
Address:4130 LINDEN AVE SUITE 255  
Box:City:DAYTON  
State:OH  
ZIP:45432-3076  
Country:US  
Phone:513-258-3930  
CAGE:1B538

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Composition/Information on Ingredients  
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Ingred Name:THORIUM 232 (SPECIFIC ACTIVITY 0.001050 MICROCURIES/GM)  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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Route

s of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:THIS PRODUCT IS AN ARTICLE. THIS ELECTRON TUBE DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER NORMAL CONDITIONS OF USE. SPECIFIC ACTIVITY OF THORIATED (THORIUM 232) TUN GSTEN WIRE IS 0.001050 MICROCURIES/GM.  
Effects of Overexposure:THE PRODUCT IS AN ARTICLE. THIS ELECTRON TUBE DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER NORMAL CONDITIONS OF USE.  
Medical Cond Aggravated by Exposure:NONE

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===== First Aid Measures =====

First Aid:EMERGENCY FIRST AID IS NOT NECESSARY UNDER NORMAL CONDITIONS OF USE.

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

Spill Release Procedures:IN CASE OF TUBE BREAKAGE, TAKE APPROPRIATE SAFETY PRECAUTIONS SUITABLE FOR CLEANUP AND COLLECTION OF CONTAMINATED ITEMS, SUCH AS THE USE OF RUBBER GLOVES, TWEEZERS/TONGS, DAMP SPONGES AND DUST RESPIRATORS. TRANSFER TO LABELLED CONTAINER FOR DISPOSAL.

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

Handling and Storage Precautions:STORE IN ORIGINAL CONTAINER. AVOID BREAKING TUBES. WEAR GLOVES TO HANDLE BROKEN TUBES.  
Other Precautions:KEEP AWAY FROM SMALL CHILDREN. WASH HANDS IMMEDIATELY IF CONTACTED BROKEN TUBES.

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

Respiratory Protection:NONE NORMALLY REQUIRED. DUST RESPIRATOR IF HANDLING BROKEN TUBES.  
Ventilation:NONE NORMALLY REQUIRED.  
Protective Gloves:RUBBER GLOVES IF HANDLING BROKEN TUBES.  
Eye Protection:NONE NORMALLY REQUIRED.  
Other Protective Equipment:NONE NORMALLY REQUIRED.  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.  
Supplemental Safety and Health  
MANUFACTURER STATES THAT THIS PRODUCT CONFORMS TO THE HAZARD COMMUNICATION STANDARD DEFINITION O

===== Physical/Chemical Properties =====

HCC:A2

Appearance and Odor:ELECTRON TUBE.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:BREAKAGE.

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

Waste Disposal Methods:DISPOSE OF VIA A LICENSED COMMERCIAL RADIOACTIVE  
WASTE DISPOSAL AGENCY. OBSERVE ALL LOCA  
L, STATE AND FEDERAL  
REGULATIONS.

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