

VARIAN ASSOCIATE INC;CROSSED FIELD & RECEIVER PROT -- ELECTRON TUBE,MAGNETRON  
VMX 1090 -- 5960-01-046-4482

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Product Identification  
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Product ID:ELECTRON TUBE,MAGNETRON VMX 1090

MSDS Date:08/18/1995

FSC:5960

NIIN:01-046-4482

MSDS Number: BXTMX

=== Responsible Party ===

Company Name:VARIAN ASSOCIATE INC;CROSSED FIELD & RECEIVER PROT

Address:150 SOHIER RD

City:BEVERLY

State:MA

ZIP:01915-5595

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: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

CAGE:88236

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Composition/Information on Ingredients  
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Ingred Name:MAGNETIZED MATERIAL

Other REC Limits:NONE RECOMMENDED

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Hazards  
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Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) NOT RELEVANT

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NOT RELEVANT. NO HEALTH HAZARD. THIS

DEVICE IS AN ELECTRON TUBE WHICH CONTAINS A PERMANENT MAGNETIC  
FIELD WHICH DOES NOT EXCEED THE LIMITS SPECIFIED IN 49 CFR  
173.21(D).

Explanation of Carcinogenicity:NONE

Effects of Overexposure:NONE

Medical Cond Aggravated by

Exposure:NONE

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

First Aid:NONE REQUIRED UNLESS TUBE IS BROKEN OR IN FIRE. GET MEDICAL ATTENTION. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:NOT LIKELY TO OCCUR.

===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media:BLANKET FIRES WITH DRY NITROGEN OR ARGON OR SMOTHER

WITH DRY CHEMICAL. DO NOT USE WATER OR HALON AGENTS ON FIRE.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:ELECTRON TUBE MAY BURST FORMING TOXIC FUMES.

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

Spill Release Procedures:IF BROKEN, SWEEP UP CAREFULLY AND TRANSFER INTO A SEALABLE WASTE CONTAINER. MINIMIZE GENERATION OF DUST.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE MICROWAVE TUBES IN SAFE PLACE. KEEP OUT OF REACH OF CHILDREN. PROTECT TUBES AGAINST PHYSICAL DAMAGE.

Other Precautions:DO NOT CRUSH, GRIND, CUT, FILE, SAW OR OTHERWISE CREATE DUST FROM MAGNETIC MATERIAL USED AS A PART OF MICROWAVE TUBES.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation:ADEQUATE

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Protective Gloves:NONE NORMALLY REQUIRED.

Eye Protection:NONE NORMALLY REQUIRED.

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

MICROWAVE TUBES WITH MAGNETIC MATERIAL HAVING A MAGNETIC FIELD IN EXCESS OF 0.00525 GAUSS MEASURED AT 15 FEET (4.6 METERS) FROM ANY SURFACE OF THE PACKAGE MUST NOT BE SHIPPED ON AIRCRAFT.

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MAGNETIC FIELD STRENGTH OF THIS PRODUCT IS 0.00175 GAUSS AT 15 FEET.

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

HCC:M1

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:SOLID FORM, MICROWAVE TUBE

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

Stability Indicator/Materials to Avoid:YES

Stability Condition t

o Avoid:BREAKAGE, FIRE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLING OF MAGNETS USED IN MICROWAVE TUBES IS RECOMMENDED.

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