

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

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

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 =====

Ingred Name:MAGNETIZED MATERIAL

Other REC Limits:NONE RECOMMENDED

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===== Hazards

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

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===== 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.

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===== 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.

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===== 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.

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===== 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.

THE
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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