

VARIAN ASSOCIATE INC;CROSSED FIELD & RECEIVER PROT -- VDU-1120 -- 5985-01-316-8100  
===== Product Identification =====

Product ID:VDU-1120  
MSDS Date:08/26/1994  
FSC:5985  
NIIN:01-316-8100  
MSDS Number: BVHLX  
=== 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  
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

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

Ingred Name:TRITIUM  
CAS:10028-17-8  
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

Rou

tes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:OVEREXPOSURE: SIGNIFICANT EXPOSURE TO  
A RADIONUCLIDE MAY CAUSE CANCER.  
Explanation of Carcinogenicity:NOT LISTED IN NTP, IARC, OR SOHA.  
Effects of Overexposure:TRITIUM IS A BETA EMITTER. 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 Expos  
ure:HEALING OF DAMAGED TISSUE MAY BE  
PROLONGED.

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

First Aid:SKIN CONTACT: FLUSH WITH WATER FOR 15 MINUTES. EYE CONTACT:  
FLUSH WITH WATER FOR 15 MINUTES. INHALATION: REMOVE TO FRESH AIR.  
INGESTION: A HIGH ORAL FLUID INTAKE SHOULD BE ADMINISTERED  
FOLLOWING TRITIUM EXPOSURE.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:IF SPILLED, WAER RADIONUCLIDE CARTRIDGE  
RESPIRATOR.

Ventilation:PLACE AFFECTED COMPONENT IN LOCAL EXHAUST.

Protective Gloves:DISPOSABLE GLOVES.

Eye Protection:GOGGLES.

Work Hygienic Practices:WASH HANDS.

Supplemental Safety and Heal

th

RADIOACTIVE MATERIAL, EXCEPTED PACKAGES, ARTICLES.

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

HCC:A2

NRC/State Lic Num:20-02237-04

Boiling Pt:B.P. Text:-414F,-248C

Melt/Freeze Pt:M.P/F.P Text:-425F,-254C

Vapor Pres:18.317

Spec Gravity:6.0

Solubility in Water:100%

Appearance and Odor:GAS, NO ODOR.

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS.

Stability Condition to Avoid:TEMPERATURES IN EX

CESS OF 400C WILL CAUSE  
DECOMPOSITION OF TIT2 WITH RELEASE OF TRITIUM GAS.  
Hazardous Decomposition Products:UNBOUND TRITIUM.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE  
AND FEDERAL REGULATIONS.

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