

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.28
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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 =====

Routes

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 Exposure
: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.

===== 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 Health
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 EXCES

S 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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