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COMMUNICATIONS AND POWER INDUSTRIES INC -- VDS1190 -- 5960-00-005-2080

Product ID:VDS1190 MSDS Date:06/30/1998 FSC:5960 NIIN:00-005-2080 Status Code:A MSDS Number: CJLHF === Responsible Party === Company Name: COMMUNICATIONS AND POWER INDUSTRIES INC Address:150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Country:US Info Phone Num:978-922-6000 EXT.285 Emergenc y Phone Num:508-922-6000 EXT.285 / FAX 2736 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 Contract Num:SP0960-98-Q-A320 CAGE:88236

Ingred Name:TRITIUM AS SOLID TITANIUM TRITIDE &It; Wt:1. Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:5000 MILLIREMS/YR PER 10CFR PART 20. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SIGNIFIGANT EXPOSURE TO A RADIONUCLIDE MAY CAUSE CANCER. Explanation of Carcinogenicity:PER MSDS:NOT LISTED IN NTP/IARC/OSHA. Effects of Overexposure:SIGNIFICANT EXPOSURE TO A RADIONUCLIDE MAY CAUSE CANCER.TIRITUM IS A BETA EMITTER.IF EXPOSURE IS SUSPECTED. SEEK MEDICAL ATTENTION,. URINE ASSAY FOR TRITIUM IS ONLY MEANS OF MEASURING THE DEGREE OF EX POSURE. Medical Cond Aggravated by Exposure:HEALING OF DAMAGED TISSUES MAY BE PROLONGED.

First Aid:SKIN: FLUSH WITH WATER FOR 15 MINUTES. EYES: FLUSH WITH WATER FOR 15 MINUTES. INHALATION: REMOVE TO FRESH AIR. INGESTED: A HIGH ORAL FLUID INTAKE SHOULD BE ADMINISTERED FOLLOWING TRITIUM EPOSURE.

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Autoignition Temp:Autoignition Temp Text:NA Lower Limits:N/APPLICABLE Upper Limits:N/APPLICABLE Extinguishing Media:NOT APPLICABLE. Fire Fighting Procedures:NOT APPLICABLE. Unusual Fire/Explosion Hazard:NOT APPLICABLE.

Spill Release Procedures: WHEN HANDLING BROKEN TUBES, WEAR PROTECTIVE RUBBER GLOVES & CLOTHING. NO OTHER DATA SPECIFIED BY MANUFACTURER. DL

A-HMIS STAFF: SWEEP UP, BEING CAREFUL TO NOT CREATE DUST. PLACE IN A WASTE CONTAINER AN D DISPOSE OF IAW NUCLEAR REGULATORY COMMISSION (NRC) REGULATIONS CONCERNING THE DISPOSAL OF TRITIUM. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: TUBES ARE SEALED SOURCES AND NORMAL HANDLING DOES NOT PRESENT A RADIATION PROBLEM. AVOID THE POSSIBILITY OF RUBBING RADIOACTIVE MATERIAL ONTO THE SKIN.

Other Precautions: BROKEN OR DISASSEMBLED RECEIVER PROTECTOR TUBES MAY EMIT IONIZING RADIATION.

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

Respiratory Protection:IF SPILLED WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR. Ventilation:PLACE AFFECTED COMPONENT IN LOCAL EXHAUST. Protective Gloves:DISPOSABLE GLOVES. Eye Protection:GOGGLES. Other Protective Equipment:NOT APPLICABLE. Work Hygienic Practices:WASH HANDS. Supplemental Safety and Health DEVICE IS A RECE IVER PROTECTOR TUBE WHICH CONTAINS A SMALL AMOUNT OF TRITIUM. THE TUBE IS CONSIDERED TO BE A SEALED SOURCE. NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. THIS DEVICE IS A ARTICLE IAW 49 CFR 173.422; AN ARTICLE IAW 29 CFR 1910.1200 & AN ELECTRON TUBE IN COMPLIANCE WITH 10 CFR 30.15(A).

HCC:A2 NRC/State Lic Num:20-02234-04 Boiling Pt:=-248.C, -414.4F Melt/Freeze Pt:=-254.C, -425.2F Vapor Pres:18.317 ATM Spec Gravity:6.0 Solubility in Water:100% COMPLETE (TRITIUM) Appearance and Odor:GAS, NO ODOR (CONTAINED IN A SEALED ELECTRON TUBE)

Stability Indicator/Materials to Avoid:YES OXIDIZERS.

Stability Condition to Avoid:TEMPERATURES IN EXCESS OF 400C WILL CAUSE DECOMPOSITION OF TIT2 WITH RELEASE OF TRITIUM GAS. Hazardous Decomposition Products:UNBOUND TRITIUM.

Toxicological Information: NONE SPECIFIED BY MANUFACTURER.
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Ecological:NONE SPECIFIED BY MANUFACTURER.
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Waste Disposal Methods:DISPOSE OF BROKEN OR SPENT TUBES AS SPECIFIED IN 10 CFR PART 20. EPA HAZARDOUS WASTE NUMBER/CODE: NOT APPLICABLE. HAZARDOUS WASTE CHARACTERISTICS: NOT APPLICABLE. DISPOSAL METHODS: NOT APPLICABLE.
========= M SDS Transport Information ====================================
Transport Information:APPLICABLE REGULATIONS: 49 CFR. SHIPPING NAME: RADIOACTIVE MATERIAL, EXEMPTED PACKAGE, ARTICLES. IDENTIFICATION NUMBER: UN2910. REPORTABLE QUANTITY: NO. HAZARD CLASS: RADIOACTIVE MATERIAL. LABELS: NON E. UNIT CONTAINER: SEALED ALUMINUM BAG INSIDE CARDBOARD BOX. DOT SPECIFICATION CONTAINER: NO. DOT EXEMPTION NUMBER/DOD CERTIFICATION CONTROL NUMBER (CCN): 49 CFR 173.421-1 ADDITIONAL REQUIREMENTS FOR EXCE PTED PACKAGES CONTAINING CLASS 7 (RADIOACTIVE) MATERIALS & 49 CFR 173.422 EXCEPTIONS FOR INSTRUMENTS & ARTICLES. NET EXPLOSIVE WEIGHT: NO. LIMITED QUANTITY: YES. US POSTAL REGULATIONS: MAY BE MAIL ED.
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SARA Title III Information:NONE SPECIFIED BY MANUFACTURER. Federal Regulatory Information:NONE SPECIFIED BY MANUFACTURER. State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

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