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COMMUNICATION & PWR INDUSTRIES(FRMLY VARIAN ASSOC) -- 1BRR ELECTRON TUBE - 5960-00-193-5093

Product ID:1BRR ELECTRON TUBE MSDS Date:08/22/1996 FSC:5960 NIIN:00-193-5093 MSDS Number: BDHYM === Responsible Party === Company Name: COMMUNICATION & PWR INDUSTRIES (FRMLY VARIAN ASSOC) Address: BEVERLY MICROWAVE DIV, 150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Coun try:US Info Phone Num:508-922-6000 EXT.285 Emergency Phone Num:508-922-6000 EXT.285 Preparer's Name: FRANK E. TROJAN CAGE:KO568 === Contractor Identification === Company Name: COMMUNICATION & PWR INDUSTRIES (FRMLY VARIAN ASSOC) Address: BEVERLY MICROWAVE DIV, 150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Country:US Phone:508-922-6000 EXT.285 CAGE:KO568 Company Name: COMMUNICATIONS AND POWER INDUSTRIES INC Address:150 SOHIER RD City:BEVERLY State:MA ZIP:01915-5595 Country:US Phone:978-922-60 00 EXT.285 CAGE:88236 Company Name:M/A-COM INC Address:1011 PAWTUCKET BLVD Box:3295 City:LOWELL State:MA ZIP:01853-3295 Country:US Phone:617-272-3000 (DAYTIME ONLY) CAGE:96341 Ingred Name:COBALT (SARA 313) CAS:7440-48-4

RTECS #:GF8750000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3: A3: 9596 entification =======================

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:COBALT 60 RADIOACTIVE:SIGNIFICANT SKIN CONTACT MAY RESULT IN BURNS.RAPID ESTIMATION OF AMT OF INTERNAL CONTAMIN DIFFICULT/IMPOSSIBLE WHEN ALHPA/PURE BETA EMITTERS INVOLVED.COBALT 60 METAL:CONTACT DERM ,BREATH DIFFICULTIES.ALLERGIC ASTHMA,RESTRICTED PULM FUNCTIONS,INTERNAL FIBROSIS FROM LONG-TERM OCCUP EXPO TO CO/CMPDS.

Explanation of Carcinogenicity:PER MSDS:COBALT 60 AS RADIACIVE-CANCER CAUSING AGENT:BETA/GAMMA RAYS.

Effects of Overexposure:COBALT 60 RADIOACTIVE:NAU,VOMIT,DIARR FOR HIGH ACUTE DOSES.COBALT 60 METAL:COBALT DUST INHAL CAUSE PULM SYMPT(WHEEZ,IRRIT OF UPPER RESP TRACT,HYPERSENSITIVITY RXS(ASTHMA)).SKIN CONTACT MAY CAUSE ADENI TIDES,ESPECIALLY IN CREASES OB ELBOWS/KNEES/ANKLES/NECK.CONTACT W/EYE CASUE CO NJ.INGEST

PROD HOT SENS, VOMIT, DIARR, NAU.

Medical Cond Aggravated by Exposure:HEALING OF DMG TISSUES MAY BE PROLONGED.SKIN/UPPER RESP TRACT DISORDERS MAY BE WORSENED BY EPXO TO COBALT.TARGORG:RESP SYS,SKIN,BLADDER,KINDEYS,EYES.

First Aid:DECONTAMIN EXPO INDIVIDUAL.TRANSPORT TO HOSPITAL IF NAU/VOMIT OCCUR IN 1ST 24 HRS.EYE:IMMED FLUSH GENTLY BUT THOROUGHLY W/PLENTY OF RUNING WATER @LEAST 15MINS,OPN EYELIDS.S

KIN:IMMED WASH

W/SOAP/WAER.I NHAL:REMOVE TO FRESH AIR.RESTORE &/OR SUPPORT BREATHING AS NEEDED.INGEST:NEVER GIVE ANYTHING BY MOUTH TO SOMEONE WHO IS UNCONS/CONVULSING.IF COBALT SALTS INGEST GIVE 1-2 GLASSES OF WATER.INDUCE VOMIT.

Autoignition Temp:Autoignition Temp Text:NA Lower Limits:NA Upper Limits:NA

Spill Release Procedures: BROKEN/DISAS

SEM RECEIVER PROTECTOR TUBE MAY EMIT IONIZING RADIATION.WHEN HNDLG BROKEN TUBES WEAR PROT RUBB GLOVES/CLOTH.AVOID POSSIBLITY OF RUBBING RADIOACTIVE MATL ONTO SKIN.WASH EXPO SKIN AFT HNDLG BROKEN TUBES W/RADIOACTIVE MATL.AVOID INHAL GASES.

Handling and Storage Precautions: ADMIN PREPLACE/PERIODIC MED EXAMS EMPHASIZING SKIN/UPPER RESP TRACT FUNCTIONS.ALL PERSONS WHO WORK W/EXPO TO MICROWAVE TUBE/EPQMT WHI
CH UTILIZES(SUPP)
Other Precautions: NRC LIC#: 20-0223703E. DEVICE IS RECEIVER PROTECTOR TUBE WHICH CONTAINS SMALL AMTS OF COBALT 60.TUBE CONSIDERED TO BE SEALED SOURCE & NORMAL HNDLG WILL PRESENT NO RADIATION PROBLEMS.DEVICE MFG ARTICLE IAW 49CFR173.422/29CFR1910.1200.(SUPPLE)

Work Hygienic Practices:WASH HANDS.

Supplemental Safety and Health

STORE/HNDLG:SUCH TUBES MUST TAKE PRECAUT TO PROTECT THEMSELVES AGAINS T

POSSIBLE SER BODILY INJURY.DON'T BE CARELESS AROUND SUCH PRODUCTS. OTHER PRECAUT:DEVICE AN ELECTRON TUBE MFG IN COMPLIANCE W/10CF R30.15(A)(8).

HCC:A2 NRC/State Lic Num:20-02237-04 Boiling Pt:B.P. Text:5252F,2900C Melt/Freeze Pt:M.P/F.P Text:2723F,1495C Decomp Temp:Decomp Text:NA Vapor Pres: