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

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

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

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

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

Antitication	 _

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion: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.

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Autoignition Temp:Autoignition Temp Text:NA Lower Limits:NA Upper Limits:NA
======== Accidental Release Measures ==========

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 ========================== 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) ===== Exposure Controls/Personal Protection ======== Work Hygienic Practices: WASH HANDS. Supplemental Safety and Health STORE/HNDLG:SUCH TUBES MUST TAKE PRECAUT TO PROTECT THEMSELVES AGAINS Т 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).

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

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: