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Product ID:ELECTRON TUBE MA39044X MSDS Date:05/09/2000 FSC:5960 NIIN:00-073-9277 Status Code:A Article:Y **MSDS Number: CKRRD** === 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 Emergency Phone Num:978-922-6000 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

Ingred Name:COBALT 60 RADIOACTIVE MATERIAL &It; Wt:1.

Ingred Name:TRITIUM &It; Wt:1.

======================== Hazards Identif

LD50 LC50 Mixture:NONE PROVIDED BY MFR.

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

Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM, SKIN, BLADDER, KIDNEYS, AND EYES. SIGNIFICANT SKIN CONTACT MAY RESULT IN BURNS. CONTACT DERMATITIS AND BREATHING DIFFICULTIES. CHRONIC- ALLERGIC ASTHMA, RESTRICTED PULMONARY FUNCTIONS, AND INTERSTITAL FIBROSIS MAY BE CAUSED BY LONG-TERM OCCUPATIONAL EXPOSURE TO COBALT AND ITS COMP

OUNDS.

Explanation of Carcinogenicity:CANCER CAUSING AGENT: BETA OR GAMMA RAYS. COBALT METAL/POWDER IS NOT LISTED AS A CARCINOGEN BY THE NTP, IARC, OR OSHA.

Effects of Overexposure:NAUSEA ANN VOMITING AND DIARRHEA FOR HIGH ACUTE DOSES. INHALATION OF COBALT DUST CAN CAUSE PULMONARY SYMPTOMS SUCH AS WHEEZING, IRRITATION OF THE UPPER RESPIRATORY TRACT (URT) AND HYPERSENSITIVITY RE ACTIONS (ASTHMA). SKIN CONTACT WITH POWDERED COBALT MAY CAUSE ADENITIDES, ESPECIALLY IN THE C

REASES OF THE

ELBOWS, KNEES, ANKLES, AND NECK. CONTACT WITH EYES MAY CAUSE CONJUNCTIVITIS. INGESTION MAY PR ODUCE A HOT SENSATION ALONG WITH VOMITING, DIARRHEA, AND NAUSEA.

Medical Cond Aggravated by Exposure:HEALING OF DAMAGED TISSUES MAY BE PROLONGED. DISORDERS OF THE SKIN & THE URT MAY BE WORSENED BY EXPOSURE TO COBALT.

First Aid:EYE: IMMEDIATELY FLUSH EYES, INCLUDING UNDER THE EYELIDS, GENTLY BUT T

HOROUGHLY WITH PLENTY OF RUNNING WATER FOR AT LEAST 15 MINS. SKIN: IMMEDIATELY WASH THE AFFECTED AREA WITH SOAP & WATER. INHALATIO N: REMOVE THE EXPOSED PERSON TO FRESH AIR, RESTORE &/OR SUPPORT HIS OR HER BREATHING AS NEEDED. INGESTION: NEVER GIVE ANYTHING BY MOUTH TO SOMEONE WHO IS UNCONSCIOUS OR CONVULSING. IF COBALT SALTS ARE INGESTED, GIVE ONE TO TWO GLASSES OF WATER & INDUCE VOMITING. DECONTAMINATE THE EXPOSED INDIVIDUAL IF EXPOSED TO RADIOACTIVE MATERIAL. TRAN

SPORT TO HOSPITAL IF

NAUSEA/VOMITING/DIARRHEA OCCUR.

Autoignition Temp:Autoignition Temp Text:NOT AP Lower Limits:NOT APPLICAB Upper Limits:NOT APPLICAB

Spill Release Procedures:NONE PROVIDED BY MFR. Neutralizing Agent:NONE PROVIDED BY MFR.

Handling and Storage Precautions: ALL PERSONS

WHO WORK WITH OR ARE EXPOSED TO MICROWAVE TUBES OR EQUIPMENT WHICH UTILIZES SUCH TUBES MUST TAKE PRECAUTIONS TO RPOTECT THEMSELVES AGAINST POSSIBLE SERIOUS BODILY INJURY. DO NOT BE CARELES S AROUND SUCH PRODUCTS. Other Precautions:NONE PROVIDED BY MFR.

Respiratory Protection: IF SPILLED, WEAR RADIONUCLIDE CARTRIDGE RESPIRATOR. Ventilation: PLACE AFFECTED COMPONENT IN LOCAL EXHAUST. Protective Gloves: DISPOSABLE G LOVES. Eye Protection: GOGGLES Work Hygienic Practices: WASH HANDS Supplemental Safety and Health THIS DEVICE IS A RECEIVER PROTECTOR TUBE WHICH CONTAINS A SMALL AMOUNTS OF COBALT 60 AND A SMALL AMOUNT OF TRITIUM (H3). THIS IS A SEALED SOURCE AND NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. THIS DEVICE IS A MANUFACTURED ARTICLE IN ACCORDANCE WITH 49 CFR 173.422 AND 29 CFR 1910.1200.

HCC:A1 Boiling Pt:=29 00.C, 5252.F B.P. Text:COBALT Melt/Freeze Pt:=1495.C, ######F M.P/F.P Text:COBALT Vapor Pres: