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COMMUNICATIONS AND POWER INDUSTRIES INC -- 6163 -- 5960-00-060-6604

Product ID:6163 MSDS Date:12/23/1998 FSC:5960 NIIN:00-060-6604 Status Code:A Article:Y MSDS Number: CJKMP === 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 Emerg ency 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 Contract Num:SP0960-99-Q-1007 CAGE:88236

Ingred Name:COBALT-60 CAS:10198-40-0

Routes of Entry: Inhalat

ion:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM, SKIN, BLADDER, KIDNEYS, & EYES. ACUTE- SKIN: MAY RESULT IN BURNS. CONTACT DERMATITIS. RAPID ESTIMATION OF THE AMOUNT OF INTERNAL CONTAMINATION IS DIFFICULT OR IMPOS SIBLE WHEN ALPHA OR PURE BETA EMITTERS ARE INVOLVED. INHALATION: BREATHING DIFFICULTIES. CHRONIC- ALLERGIC ASTHMA, RESTRICTED PULMONARY FUNCTIONS, AND INTERNAL FIBROSIS MAY BE CAUSED BY LONG-TERM OC CUPATIONA L EXPOSURE

TO COBALT AND ITS COMPOUNDS.

Explanation of Carcinogenicity:CANCER CAUSING AGENT: BETA OR GAMMA RAYS

Effects of Overexposure:NAUSEA & VOMITING & DIARRHEA FOR HIGH ACUTE DOSES. INHALATION OF COBALT DUST CAN CAUSE PULMONARY SYMPTOMS SUCH AS WHEEZING, IRRITATION OF THE UPPER RESPIRATORY TRACT & HYPERSENSITIVITY REACTIONS (AST HMA). SKIN CONTACT W/ POWDERED COBALT MAY CAUSE ADENITIDES, ESPECIALLY IN THE CREASES OF THE ELBOWS, KNEES, ANKLES, & NECK. CONTACT W

ITH EYES MAY CAUSE

CONJUNCTIVITIS. INGESTION MAY PRODUCE A HOT SE NSATION ALONG WITH VOMITING, DIARRHEA, & NAUSEA.

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

First Aid:EYES: IMMEDIATELY FLUSH EYES, INCLUDING UNDER THE EYELIDS, GENTLY BUT THOROUGHLY WITH PLENTY OF RUNNING WATER F OR AT LEAST 15

MIN. SKIN: IMMEDIATELY WASH THE AFFECTED AREA WITH SOAP AND WATER. INHAL ATION: REMOVE THE EXPOSED PERSON TO FRESH AIR, RESTORE AND/OR SUPPORT HIS OR HER BREATHING AS NEEDED. INGESTION: NEVER GIVE ANYTHING BY MOUTH TO SOMEONE WHO IS UNCONSCIOUS OR CONVULSING. IF COBALT SA LTS ARE INGESTED, GIVE ONE TO TWO GLASSES OF WATER & INDUCE VOMITING. TRANSPORTTO A HOSPITAL IF NAUSEA & VOMITING OCCUR IN THE FIRST 24 HOURS.

=========== Accidental Releas

e Measures ================

Spill Release Procedures: WHEN HANDLING BROKEN TUBES WEAR PROTECTIVE RUBBER GLOVES & CLOTHING. AVOID THE POSSIBILITY OF RUBBING RADIOACTIVE MATERIAL ONTO THE SKIN. WASH EXPOSED SKIN AFTER HANDLING BROKEN TUBES CONTAINING RADIO ACTIVE MATERIALS.

Handling and Storage Precautions: ELECTRON TUBES SHOULD BE STORED IN A CLEAN DRY ENVIRONMENT SUITABLE FOR ELECTRONIC EQUIPMENT. TUBES WITH

## PERMANENT MAGNETS MAY GENERATE STRAY MAGNETIC FIELDS.

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

Work Hygienic Practices:WASH HANDS. Supplemental Safety and Health THIS DEVICE IS A RECEIVER PROTECTOR TUBE WHICH CONTAINS A SMALL AMOUNT OF COBALT 60. THE TUBE IS CONSIDERED TO BE A SEALED SOURCE & NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. THIS DEVICE IS A MANUFACTURED ARTICLE IN ACCORDANCE WITH49 CFR 173.422. THIS DEVICE IS AN ARTICLE IN ACC ORDANCE WITH 29 CFR 1910.1200.

HCC:A3 Boiling Pt:=2900.C, 5252.F Melt/Freeze Pt:=1495.C, ######F Vapor Pres: