

COMMUNICATIONS & POWER IND INC/BEVERLY MICROWAVE D -- BTR 678 -- 5960-01-066-4771

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Product Identification  
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Product ID:BTR 678

MSDS Date:06/30/1998

FSC:5960

NIIN:01-066-4771

MSDS Number: BSVQL

=== Responsible Party ===

Company Name:COMMUNICATIONS & POWER IND INC/BEVERLY MICROWAVE D

Address:150 SOHIER RD

City:BEVERLY

State:MA

ZIP:01915-1018

Country:US

Info Phone Num:508-922-6000 EXT.285

/ FAX 2736

Emergency Phone Num:978-922-6000 (8 AM - 4 PM)

Preparer's Name:FRANK E. TROJAN

CAGE:JO786

=== Contractor Identification ===

Company Name:COMMUNICATIONS & POWER IND INC/BEVERLY MICROWAVE D

Address:150 SOHIER RD

City:BEVERLY

State:MA

ZIP:01915-1018

Country:US

Phone:978-922-6000 EXT.285 / FAX 2736

CAGE:JO786

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-DC027

CAGE:88236

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-RX157

CAGE:88236

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Composition/Information on Ingredients  
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Ingred Name:PROMETHIUM 147

< Wt:1.

Other REC Limits:NONE RECOMMENDED

Ingred Name:TRITIUM (H3)

CAS:10028-17-8

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LD50 LC50 Mixture:NOT RELEVANT

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: NONE (HMIS). ACUTE AND CHRONIC - PRODUCT IS AN ARTICLE. IT IS A RECEIVER PROTECTOR TUBE WHICH CONTAINS A SMALL AMOUNT OF PROMETHIUM 147 AND A SMALL AMOUNT OF TRITIUM. THE TUBE IS SEALED AND NORMAL HANDLING WILL PRESENT NO RADIATION PROBLEMS. SIGNIFICANT EXPOSURE MAY CAUSE CANCER.

Explanation of

Carcinogenicity:CAUTION! CONTAINS RADIOACTIVE MATERIAL. MAY CAUSE CANCER.

Effects of Overexposure:TRITIUM IS A BETA EMITTER. IF EXPOSURE IS SUSPECTED, SEEK MEDICAL ATTENTION. URINE ASSAY FOR TRITIUM IS THE ONLY MEANS OF MEASURING THE DEGREE OF EXPOSURE.

Medical Cond Aggravated by Exposure:HEALING OF DAMAGED TISSUES MAY BE PROLONGED.

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===== First Aid Measures =====

First Aid:EYE CONTACT: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. INHALATION: REMOVE TO FRESH AIR. INGESTION: A HIGH ORAL FLUID IN TAKE SHOULD BE ADMINISTERED FOLLOWING TRITIUM EXPOSURE.

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===== Fire Fighting Measures =====

Flash Point:NOT RELEVANT  
Lower Limits:NOT RELEVANT  
Upper Limits:NOT RELEVANT  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

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Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NOT RELEVANT

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===== Accidental Release Measures =====

Spill Release Procedures:IF BROKEN, WEAR PROTECTIVE EQUIPMENT. COLLECT AND TRANSFER TO PROPER CONTAINER FOR DISPOSAL.

Neutralizing Agent:NOT RELEVANT

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===== Handling and Storage =====

Handling and Storage Precautions:HANDLE WITH CARE.

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r Precautions:WASH HANDS BEFORE EATING OR DRINKING. OTHER EXPOSURE LIMITS: 1250 MILLIREMS PER CALENDAR QUARTER.

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

Respiratory Protection:NONE REQUIRED IF USED AS INTENDED  
Ventilation:NONE REQUIRED IF USED AS INTENDED  
Protective Gloves:RUBBER, IF BROKEN  
Eye Protection:NONE REQUIRED IF USED AS INTENDED  
Other Protective Equipment:NONE REQUIRED IF USED AS INTENDED  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.

Supplemental Safety and Health  
THE MANUFACTURER STATES THIS DEVICE IS A MANUFACTURED ARTICLE IN ACCORDANCE WITH 49 CFR 173.422. THIS DEVICE IS AN ARTICLE IN ACCORDANCE WITH 29 CFR 1910.1200. THIS ELECTRON TUBE IS MANUFACTURED IN COMPLIANCE WITH 10 CFR 30.15(A)(8). NRC LICENSE NUMBER: 20-02237-04, 20-02237-03E.

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

HCC:A2  
NRC/State Lic Num:NOT RELEVANT  
Decomp Temp:Decomp Text:NOT KNOWN  
WN  
Spec Gravity:NOT RELEVANT  
Viscosity:NOT RELEVANT  
Evaporation Rate & Reference:NOT RELEVANT  
Solubility in Water:NOT RELEVANT  
Appearance and Odor:PRODUCT IS AN ARTICLE.

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
CORROSIVES  
Stability Condition to Avoid:NOT RELEVANT  
Hazardous Decomposition Products:UNBOUND PROMETHIUM-147

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===== Disposal Considerations =====

Waste Disposal Methods:PREVENT WASTE

TE FROM CONTAMINATING SURROUNDING

ENVIRONMENT. KEEP PERSONNEL AWAY. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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