

VARIAN ASSOCIATES, EIMAC DIV -- 8189-4PR1000A -- 5960-00-080-8750

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

Product ID:8189-4PR1000A

MSDS Date:01/01/1985

FSC:5960

NIIN:00-080-8750

MSDS Number: BCXTV

=== Responsible Party ===

Company Name:VARIAN ASSOCIATES, EIMAC DIV

Address:301 INDUSTRIAL WAY

City:SAN CARLOS

State:CA

ZIP:94070-2603

Country:US

CAGE:06980

=== Contractor Identification ===

Company Name:VARI

AN ASSOCIATES INC EIMAC DIVISION

Address:301 INDUSTRIAL WAY

City:SAN CARLOS

State:CA

ZIP:94070-2603

Country:US

Phone:415-592-1221

CAGE:06980

Company Name:VARIAN ASSOCIATES INC EIMAC DIVISION

Address:1678 S PIONEER RD

Box:City:SALT LAKE CITY

State:UT

ZIP:84104-4205

Country:US

Phone:801-972-5000

CAGE:08594

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

Ingred Name:THORIUM 232

CAS:7440-29-1

RTECS #:XO6400000

===== Hazards Identification =====

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Effects of Overexposure:HAZARD DEGREE DEPENDS ON THE TYPE AND QUANTITY OF RADIATION. LATENT EFFECTS: SOMATIC/GENETIC DAMAGE.

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

First Aid:USE FIRST AID. CALL MEDICAL EMERGENCY CARE. REMOVE AND ISOLATE COMTAMINATED CLOTHING. SHOWER VICTIM WITH SOAP AND WATER. DETAIN PERSONNEL AND EQUIPMENT EXPOSED. ADVISE MEDICAL PERSONNEL THAT VICTIM MA Y BE CONTAMINATED.

===== Fire Fighting Measures =====  
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Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:SOME OF MATERIAL MAY BURN. CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

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

Spill Release Procedures:HANDLE BROKEN DEVICE WITH GLOVES AND FORCEPS.

===== Handling and Storage =====  
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Handling and Storage Precautions:SHIELD ACCORDING TO EMITTED RADIATION. PROTECT FROM FILM AND FILM PLATES. KEEP CONTAINERS CLOSED. STORE IN AREA FOR RADIOACTIVE MATERIALS.

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

Respiratory Protection:SELF CONTAINED BREATHING APARATUS IF INVOLVED IN FIRE, OTHERWISE GAS MASK.

Ventilation:PROVIDE MECHANICAL (GENERAL/LOCAL EXHAUST) VENTILATION TO MAINTAIN < TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY G

LASSES

Other Protective Equipment:EYE WASH STATION, APRONS, SPECIAL IMPERVIOUS CLOTHING

Supplemental Safety and Health

SOURCE OF DATA - MIL HANDBOOK 600-1 SEP 76. SAFETY AND HEALTH DATA DEVELOPED BY DGSC-STF.

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

HCC:A2

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

Stability Indicator/Materials to Avoid:YES

ISOLATE AND SEGREGATE FROM MOST OTHER TYPE MATERIAL.

Hazardous Decomposition Products:DEPEND

S ON CHEMICAL COMPOSITION;

FISSION PRODUCTS

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

Waste Disposal Methods:CONTROLLED DISPOSAL REQUIRED IN ACCORDANCE WITH DOD REGULATIONS AND FEDERAL, STATE, AND LOCAL REGULATIONS.

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