

VARIAN ASSOCIATES, ELMAC DIV -- 4PR400A/8188 -- 5960-00-080-8748

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Product Identification
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Product ID:4PR400A/8188

MSDS Date:01/01/1985

FSC:5960

NIIN:00-080-8748

MSDS Number: BCXTT

=== Responsible Party ===

Company Name:VARIAN ASSOCIATES, ELMAC DIV

Address:301 INDUSTRIAL WAY

City:SAN CARLOS

State:CA

ZIP:94070-2603

Country:US

CAGE:06980

=== Contractor Identification ===

Company Name:VARIAN

ASSOCIATES INC EIMAC DIVISION

Address:301 INDUSTRIAL WAY

City:SAN CARLOS

State:CA

ZIP:94070-2603

Country:US

Phone:415-592-1221

CAGE:06980

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Composition/Information on Ingredients
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Ingred Name:THORIUM 232

CAS:7440-29-1

RTECS #:XO6400000

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

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First Ai

d 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 =====

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONT

AINED 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 =====

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

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

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

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

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES

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: DEPENDS 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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