

VARIAN ASSOCIATES, ELMAC DIV -- 8252W -- 5960-00-177-1716

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

Product ID:8252W

MSDS Date:01/01/1985

FSC:5960

NIIN:00-177-1716

MSDS Number: BDFTT

=== 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 I

NC 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 =====

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 =====

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 =====

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 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 P

rotective 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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.