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Product ID:RADIAC SET MSDS Date:11/16/1998 FSC:6665 NIIN:01-222-1425 Status Code:A MSDS Number: CHZBC === Responsible Party === Company Name: NUCLEAR RESEARCH CORP Address: RICHBOYNTON ROAD Box:937 City:DOVER State:NJ ZIP:07801 Country:US Info Phone Num:973-361-5600 Emergency Phone Num:973-361-5600 Preparer's Name:DOD,DSCR,HMIS,VBA CAGE:06442 === Contractor Identification === Company Name:NUCLEAR RESEARCH CORP DOVER DIVISION Address:58 RICHBOYNTON RD Box:937 City:DOVER State:NJ ZIP:07801 Country:US Phone:973-361-5600 CAGE:06442 

Ingred Name:THORIUM 232 CAS:7440-29-1 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inhalation:NO Skin:NO I

ngestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SOURCE MATERIAL IS ENCLOSED AND IS WEAKLY RADIOACTIVE AND NOT A HEALTH PROBLEM UNLESS EXPOSED.SKIN:RADIOACTIVE EXPOSURE OF BARE SKIN CAN RESULT FROM PROLONGED EXPOSURE.INGESTION: RADIOACTIVE EXPOSURE OF INTERNAL ORGANS CAN RESULT FROM INGESTION OF METAL THORIUM-232.CHRONIC EFFECTS:PROLONGED EXPOSURE CAN BE CARCINOGENIC Explanation of Carcinogenicity:PROLONGED EXPOSURE TO SOURCE M ATERIAL CAN BE CARCINOGENIC. Effects of Overexposure:NONE SPECIFIED. Medical Cond Aggravated by Exposure:HEALING OF PRE-EXISTING DAMAGED TISSUES MAY BE PROLONGED.

First Aid:NONE.

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APP ARATUS/FULL PROTECTIVE GEAR FOR FIRE FIGHTING OPERATIONS INVOLVING LARGE AMOUNTS OF SOURCE MATERIAL AS SMOKE MAY BE RADIOACTIVE Unusual Fire/Explosion Hazard:FIRE MAY PRODUCE TOXIC PRODUCTS OF COMBUSTION.

Spill Release Procedures: MOVE UNDAMAGED PACKAGES FROM THE SPILL AREA. PICK UP SOURCE MATERIAL. DO NOT TOUCH SOURCE MATERIAL WITH HANDS. DECONTAMINATE THE SPILL AREA.

======= Handling and St

 Handling and Storage Precautions:DO NOT TOUCH BARE SOURCE METAL WITH HANDS. KEEP SOURCE MATERIAL IN STORAGE CONTAINER WHEN NOT IN USE.
Other Precautions:RADIOACTIVE SOURCE MATERIAL IS CONTAINED SO THAT NORMAL HANDLING DOES NOT PRESENT A RADIATION PROBLEM.

Respiratory Protection:NONE NORMALLY REQUIRED. Ventilation:USE NORMAL, ADEQUATE MECHANICAL VENTILATION. Protective Gloves:NOT REQUIRED

IF SOURCE MAT'L NOT TOUCHED Eve Protection: NONE NORMALLY REQUIRED. Other Protective Equipment: PROTECTIVE CLOTHING NOT NORMALLY REQUIRED. Work Hygienic Practices: WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. Supplemental Safety and Health THERE IS NOT AN OSHA REQUIREMENT FOR AN MSDS FOR RADIATION HAZARDS. SOURCE MATERIAL, THORIUM 232, IS WEAKLY RADIOACTIVE. RADIOACTIVITY OF ITEM IS 3-NANO CURIES. HC C:A1 Boiling Pt:B.P. Text:8132F,4500C Spec Gravity:18.95 Solubility in Water: INSOLUBLE Appearance and Odor: THORIUM 232: SOFT METAL WITH BRIGHT SILVERY LUSTER WHEN FRESHLY CUT. Percent Volatiles by Volume:0 Stability Indicator/Materials to Avoid:YES AVOID CONTACTS WITH CHLORINE, SULFUR, PHOSPHOROUS, AND CONCENTRATED ACIDS. Stability Condition to Avoid: FIRE, PHYSICAL DAMAGE. Hazardous Decomposition Products:NONE. Conditi ons to Avoid Polymerization: WILL NOT OCCUR.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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