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OAK RIDGE NATIONAL LABORATORY -- THORIUM-232 -- 6665-01-247-7284

Product ID:THORIUM-232 MSDS Date:01/01/1987 FSC:6665 NIIN:01-247-7284 MSDS Number: CCCGJ === Responsible Party === Company Name: OAK RIDGE NATIONAL LABORATORY **City:OAK RIDGE** State:TN Country:US Info Phone Num:215-343-5900 FAX: 215-343-4670 CAGE:NO290 === Contractor Identification === **Company Name:AT OMIC ENERGY COMMISSION - OAK RIDGE** CAGE:81924 Company Name: NUCLEAR RESEARCH CORP Address:125 TITUS AVE Box:H **City:WARRINGTON** State:PA ZIP:18976-2424 Country:US CAGE:96696 Company Name: OAK RIDGE NATIONAL LABORATORY City:OAK RIDGE State:TN Country:US Phone:215-343-5900 FAX: 215-343-4670 CAGE:NO290

Ingred Name:THORIUM 232 (0.03 MICOCURIES OR 30 NANOCURIES) Other REC Limits:NONE RECOMMENDED

====== Hazards Identif

ication ====================================
Routes of Entry: Inhalation:UNKNOWN Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: SKIN-RADIOACTIVE EXPOSURE OF BARE SKIN CAN RESULT FOR PROLONGED EXPOSURE. INGESTION-RADIOACTIVE EXPOSURE OF INTERNAL ORGANS CAN RESULT FROM INGESTION OF METAL. CHRONIC EFFECTS/CARCINOGENICITY: PROLONGED EXPOSURE CAN BE CARCINOGENIC. Explanation of Carcinogenicity:EXPOSURE TO RADIOACTIVITY OVER EX
TENDED PERIODS OF TIME MAY CAUSE VARIOUS FORMS OF CANCER. Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: GET VICTIM TO PHYSICIAN OR EMERGENCY ROOM IMMEDIATELY. BE SURE AND TELL MEDICAL PERSONNEL THAT POSSIBLE RADIOACTIVITY/RADIATION IS INVOLVED.
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ures ====================================
 Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:AS A MINIMUM; RESPIRATORY PROTECTION FOR FIRE FIGHTING OPERATIONS INVOLVING LARGE AMOUNTS OF SOURCE MATERIAL AS THE SMOKE MAY BE RADIOACTIVE. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.
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Spill Release Procedures:MOVE UNDAMAGED PACKAGES FROM THE SPILL AREA. PICK-UP MATERIAL. DECONTAMINATE THE SPILL AREA. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions:KEEP IN STORAGE CONTAINER WHEN NOT IN USE. DO NOT TOUCH CHECK SOURCE WITH BARE HAND. Other Precautions:NONE SPECIFIED BY MANUFACTURER.
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Respiratory Protecti

on:NONE NORMALLY REQUIRED. Ventilation:NONE NORMALLY REQUIRED. Protective Gloves:NONE NORMALLY REQUIRED. Eye Protection: NONE NORMALLY REQUIRED. Other Protective Equipment: NONE NORMALLY REQUIRED. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health THIS CHECK SOURCE IS PROVIDED WITH ION CHAMBER, P/N C-7757. THIS ION CHMBER IS FOUND ON RADIACMETER, P/N SM400, NSN 6665-01-157-3780. REFERENCE DATA/LITERATURE-T.O. 11H4-7-15-1. MFR REP, MR. TERRY SCH WAGER , 16 OCT 1996 STATED THAT THERE ISNO MSDS REQUIRED BUT ONE PROVIDED FOR INFO ONLY. HCC:A2 Boiling Pt:B.P. Text:8132F,4500C

Spec Gravity:18.95 Solubility in Water:INSOLUBLE.

Appearance and Odor:THORIUM METAL FOUND IN CHECK SOURCE PROVIDED WITH ION CHAMBER (P/N C-7757).

Stability Indicator/Materials to Avoid:YES AVOID CONTACT WITH CHLORINE, SULFUR, PH OSPHORUS AND CONCENTRATED ACIDS. Stability Condition to Avoid:NONE Hazardous Decomposition Products:NONE Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods:DISPOSE OF IAW LOCAL, STATE & FEDERAL ENVIRONMENTAL REGULATIONS (TITLE 10 CFR). DOD PERSONNEL-REMOVE CHECK SOURCE & DISPOSE OF THROUGH YOUR SERVICE LOW LEVEL RADIOACTIVE WASTE SOURCE POC; THEN TURN IN IONIZATION CHAMBER W/O CHECK SOURC

E TODRMO.

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