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HEWLETT PACKARD -- 05061-6101 -- 5960-01-022-6922

Product ID:05061-6101 MSDS Date:02/25/1981

FSC:5960

NIIN:01-022-6922

MSDS Number: BHLTS === Responsible Party ===

Company Name: HEWLETT PACKARD Address: 3000 HANOVER STREET

Box:10301

City:PALO ALTO

State:CA ZIP:94303

Info Phone Num:(415) 857-1501

Emergency Phone Num: (415) 857-1501 Preparer's Name: ROBERT L. GARTON

CA

GE:HEWLE

=== Contractor Identification ===

Company Name: HEWLETT PACKARD COMPANY

Address:ROUTE 41 City:AVONDALE

State:PA

ZIP:19311-0900 Country:US

Phone:215-268-2281

CAGE:HEWLE

Company Name: HEWLETT-PACKARD CO, CORPORATE HQ

Address:3000 MINUTEMAN RD

Box:City:ANDOVER

State:MA

ZIP:01810-1032 Country:US

Phone: 404-648-8754/FAX: 800-947-3299

CAGE:28480

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

Ingred Name: CESIUM METAL

CAS:7440-46-2

RTECS #:FK9225000 Fraction by Wt: 1-5%G

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION/INGESTION: LOW DEGREE LEVELS OF TOXICITY. SKIN/EYES: CORROSIVE. Explanation of Carcinogenicity:NONE Effects of Overexposure:SKIN/EYES: CORROSIVE. INHALATION/INGESTION: LOW DEGREE LEVELS OF TOXICITY.
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First Aid:SKIN/EYES: REMOVE PARTICLES & FLUSH W/PLENTY OF WATER. INGESTION: INDUCE VOMITING. OBTAIN MED ATTN.
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Extinguishing Media:HEAVILY SMOTHER BURNING METAL W/CLASS D EXTINGUISHING AGENT OR DRY SAND. Fire Fighting Procedures:ISOLATE BURNING METAL WHERE PRACTICAL. DON'T
USE WATER ON CESIUM FIRES. Unusual Fire/Explosion Hazard:CESIUM IS HIGHLY REACTIVE IN AIR WHICH PRODUCES MATCH-SIZE FLAMES LASTING SEVERA L SECONDS. EXPLOSVIE IN
THE PRESENCE OF MOISTURE & VIOLENTLY IN WATER.
========= Accidental Release Measures ============
Spill Release Procedures:COVER W/QUANTITIES OF DRY SAND OR CLASS D FIRE EXTINGUISHING AGENT. SHOVEL UP & REMOVE TO REMOTE (DRY) AREA ONTO A STEEL PLATE & PERMIT IT TO OXIDIZE. TUBE RUPTURE: AIR ENTERS THE OVEN SLOWLY & THE RE ACTION WOULD BE VERY SLOW & CONTAIN W/ITHE OVEN.
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Handling and Storage Precautions:AVOID SKIN & EYE CONTACT W/OXIDIZED CESIUM. STORE IN A DRY AREA FREE OF COMBUSTIBLES. Other Precautions:STORE UNDER VACUUM OR ARGON IN A SEALED GLASS OR STAINLESS STEEL CONTAINER & IN A MANNER TO AVOID BREAKAGE.
======= Exposure Controls/Personal Protection =========
Respiratory Protection:USE ONLY NIOSH APPROVED RESPIRATORS AS RECOMMENDED BY A QUALIFIED INDUSTRIAL HYGIENIST OR SAFETY ENGINEER WHERE AIRBORNE PARTICULATE IS GENE

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

RATED. Ventilation: LOCAL EXHAUST: GENERALLY NOT APPLICABLE TO THE METAL. COMPOUNDS MAY REQUIRE VENTILATION. Protective Gloves:YES Eye Protection:YES Other Protective Equipment: WEAR FIRE RETARDANT LONG SLEEVE CLOTHING WHEN HANDLING CESIUM. Supplemental Safety and Health THE CESIUM BEAM TUBE PARTS OF THE INSTRUMENT ARE CONTAINED W/I EVACUATED RUGGED STAINLESS STEEL TUBES. CHARGES OF CESIUM IS CONTAINED W/I COPPER & STAINLESS STEEL OVENS. OVENS OPERATED AT 85-120C SLOW LY EVAPOR ATES CESIUM THROUGH SMALL PASSAGES IN ANTI-SPILL MAZES. THE CESIUM IS ABSORBED ENTIRELY W/I TUBE & IS STABLE. ======== Physical/Chemical Properties =============

Boiling Pt:B.P. Text:690C

Melt/Freeze Pt:M.P/F.P Text:83F

Vapor Pres:1

Spec Gravity:1.873

Solubility in Water: VIOLENTLY REACTIVE

Appearance and Odor: SILVER-WHITE DUCTILE METAL OR SILVERY LIQUID

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

Stability Indicator/Materials to Avoid:YES

Stab

ility Condition to Avoid: EXPOSURE TO AIR, WATER, MOISTURE, CHLORINE & PHOSPHORUS.

Hazardous Decomposition Products: REACTS W/MOISTURE TO FORM HYDROGEN GAS, OXIDE OR HYDROXIDE.

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

Waste Disposal Methods: AFTER OXIDATION DISPOSE IN SIMILAR MANNER AS LIME. VERY LITTLE WOULD HAPPEN IF ALL THE CESIUM IN BEAM TUBE WERE EXPOSED AT ONCE. THE CESIUM IS CONTAINED W/I A RUGGED CYLINDRICAL STAINLESS STEEL TUBE I NSIDE A HEA

VY METAL OVEN.

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