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Product ID:210NS-1/12.5 LB MSDS Date:06/24/1992 FSC:3439 NIIN:01-391-8637 **MSDS Number: BYRXS** === Responsible Party === Company Name: METCO INC, SUB OF THE PERKIN-ELMER CORP Address:1101 PROSPECT AVENUE Box:1006 City:WESTBURY State:NY ZIP:11590-0201 Country:US Info Phone Num:516-334-1300 Emergency Phone Num:800-424-9300(CHEMTREC) CAGE:39918 === Contractor Identification === Company Name: METCO INC, SUB OF THE PERKIN-ELMER CORP Address:1101 PROSPECT AVENUE Box:City:WESTBURY State:NY ZIP:11590-2724 Country:US Phone:516-334-1300 CAGE:39918 Ingred Name:ZIRCONIUM CAS:7440-67-7 RTECS #: ZH7070000 Fraction by Wt: 76%

Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3/10 STEL;9495

Ingred Name:MAGNES

IUM OXIDE CAS:1309-48-4 RTECS #:OM3850000 Fraction by Wt: 22% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3; FUME; 9495

Ingred Name:HAFNIUM OXIDE CAS:12055-23-1 Fraction by Wt: 1.5% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.5 MG/M3 (HF) ACGIH TLV:0.5 MG/M3 (HF)

Ingred Name:CALCIUM OXIDE CAS:1305-78-8 RTECS #:EW3100000 Fraction by Wt: 0.5% Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 ACGIH TLV:2 MG/M3; 9495

======= Hazards Identifica

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION MAY CAUSE "METAL FUMES FEVER", RESPIRATORY IRRITATION. SKIN AND EYE CONTACT MAY CAUSE IRRITATION; DERMATITIS. INGESTION-NO DATA GIVEN. TARGET ORGANS: RESPIRATORY SYSTEM, SKIN, EYES.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTE D CARCINOGEN.

Effects of Overexposure:INHALED-IRRITATION. SKIN-IRRITATION. EYES-IRRITATION.

Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN.

First Aid:EYES-FLUSH WITH WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS. SKIN-WASH WITH SOAP & WATER. INHALED-REMOVE TO FRESH AIR. SEE PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS PERSISTS. INGESTED-CONS ULT A PHYSICIAN.

====== Fire Fightin

WITH HEPA FILTER. VACUUMS APPROPRIATE FOR METALLIC DUSTS SHOULD BE USED. WIPE AREA CLEAN. DO NOT USE WATER FOR CLEAN-UP OPERATIONS. DO NOT SWEEP. AVOID GE NERATING AIRBORNE DUST. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE PRODUCT CONTAINERS IN A WELL-VENTILATED, DRY, CLEAN, COOL AREA. STORE TO MINIMIZE SPILLAGE & BREAKAGE. Other

Precautions: AVOID INGESTION, INHALATION AND EXCESSIVE SKIN CONTACT. AVOID CONTACT OF POWDER WITH WATER AND OXIDIZERS.

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

Respiratory Protection: A RESPIRATOR APPROVED BY NIOSH W/FILTER CARTRIDGES APPROVED FUR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIMES DURING THERMAL SPRAY PROCESS TO PROTECT OPERATOR FROM EXPOSURE TO DUST/FUMES.

Ventilation:PRODUCT SHOULD BE USED WITH APPROPRIATE LOCAL EXHAUST VENTILATION PROV

IDED.

Protective Gloves: ALUMINIZED-PLASMA SPRAY; RUBB-OTHER.

Eye Protection: WELDERS GOGGLES W/LENSES.

Other Protective Equipment: WASH FACILITIES ARE RECOMMENDED.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING,

DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:3500F,1927C Spec Gravity:1.8-2.1 Solubility in Water:NEGLIGIBLE Appearance and Odor: POWDER, NO ODOR.

Stability Indicator/Materials to Avoid:YES OXIDIZERS, ACIDS, SULFUR. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:OZONE & NITRIC OXIDE ARE FORM BY PLASMA FLAME (SIMILAR TO WELDING FUMES). THIS ACTION IS INDEPENDENT OF METAL POWDER.

Waste Disposal Methods:EMPTY PRODU CT CONTAINERS, PRODUCT WASTE AND CLEANING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

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