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METCO INC, SUB OF THE PERKIN-ELMER CORP -- 210NS-1/12.5 LB -- 3439-01-391-8637

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

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

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

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

g Measures ============
Flash Point:NONE Extinguishing Media:USE CLASS D FIRE EXTINGUISHER. Fire Fighting Procedures:TREAT AS METALLIC FIRE. Unusual Fire/Explosion Hazard:FINE METAL DUSTS ARE FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT, FLAME, STRONG OXIDIZERS. HEATED ZIRCONIUM MAY REACT WITH WATER OR STEAM TO PRODUCE HYDROGEN
========= Accidental Release Measures ===========
Spill Release Procedures: VACUUM LOOSE POWDER ONLY WITH VACUUM EQUIPPED 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.
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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
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HCC:N1 Melt/Freeze Pt:M.P/F.P Text:3500F,1927C Spec Gravity:1.8-2.1

Solubility in Water:NEGLIGIBLE

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

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

Appearance and Odor:POWDER, NO ODOR.

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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