

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

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Product Identification  
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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

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Composition/Information on Ingredients  
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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

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Hazards Identifica  
tion =====

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.

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First Aid Measures =====

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.

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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 GENERATING AIRBORNE DUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

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 FOR 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 PROVIDED.

Protective Gloves:ALUMINIZED-PLASMA SPRAY;RUBBER-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. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

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 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 =====

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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