

METCO INC, SUB OF THE PERKIN-ELMER CORP -- 202NS -- 3439-01-382-1259

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Product Identification  
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Product ID:202NS

MSDS Date:08/27/1992

FSC:3439

NIIN:01-382-1259

MSDS Number: BYRWZ

=== 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: 77%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3/10 STEL;9495

Ingred Name:YTTRIUM OXIDE

CAS:1314-36-

9  
RTECS #:ZG3850000  
Fraction by Wt: 20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3 (Y)  
ACGIH TLV:1 MG/M3 (Y)

Ingred Name:ORGANIC BINDER  
Fraction by Wt: 1.5%  
Other REC Limits:NONE RECOMMENDED

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

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

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 RESPIRATORY TRACT IRRITATION. SKIN AND EYE CONTACT MAY CAUSE IRRITATION; DERMATITIS. INGESTION-NO DATA GIVEN. YTTRIUM MAY BE TOXIC TO LIVER AND BLOOD CLOTTING MECHANISM. TARGET OR GANS: LIVER, RESPIRATORY TRACT, BLOOD FORMING ORGANS, SKIN, EYES.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:INHALED-IRRITATION. SKIN-IRRITATION. EYES-IRRITATION.  
Medical Cond Aggravated by Exposure:CONSULT A PHYSICIAN.

===== 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-CONSULT A PHYSICIAN.

===== Fire Fighting Measures =====

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Flash Point:NONE

Extinguishing Media:USE A CLASS D EXTINGUISHER.

Fire Fighting Procedures:NONE.

Unusual Fire/Explosion Hazard:MODERATE FIRE HAZARD IN THE FORM OF DUST WHEN EXPOSED TO FLAME.

===== 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. AV

OID GE NERATING 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 Contr  
ols/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 PROVIDED.

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

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:4200F,2316C

Spec Gravity:2

Solubility in Water:NEGLIGIBLE

Appearance and Odor:POWDER, NO ODOR.

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

Stability Indicator/Materials to Avoid:YES  
NONE.

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ability 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 PRODUCT CONTAINERS, PRODUCT WASTE AND CLEANING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

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