

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

=====
Product Identification
=====

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 Nu

m: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: 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 Carcinogeni
city: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 Over
exposure: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-CONS ULT A PHYSICIAN.

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

=====

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. A

VOID 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: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.

S

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

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.