

METCO INC, SUB OF THE PERKIN-ELMER CORP -- 203-NS YTTRIA STABILIZED ZIRCONIA POWDER
-- 3439-01-382-0967

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

Product ID:203-NS YTTRIA STABILIZED ZIRCONIA POWDER
MSDS Date:07/19/1991
FSC:3439
NIIN:01-382-0967
MSDS Number: BYRWW
=== 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: 92%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3

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

Ingred Name:YTTRIUM

CAS:7440-65-5

RTECS #:ZG2980000

Fraction by Wt: 8%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9495

Ingred Name:ORGANIC BINDER

Other REC Limits:NONE RECOMMENDED

=====
===== 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
IRRI

TATION. 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: LUNGS, 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-CONS ULT A PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:NON-FLAMMABLE.

Fire Fighting Procedures:NONE.

Unusual Fire/Explosion Hazard:NONE.

=====

===== 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:4200F,2316C

Spec Gravity:2.1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:POWDER, NO ODOR.

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

Stability Indicator/Materials to Avoid:YES NONE.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:OZONE & NITRIC OXIDE ARE FORMED BY PLASMA FLAME (SIMILAR TO WELDING FUMES). THIS ACTION IS INDEPENDENT OF

F 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.