

METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 210NS-1G, MAGNESIUM ZIRCONATE POWDER -- 3439-01-380-4385

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Product Identification
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Product ID:METCO 210NS-1G, MAGNESIUM ZIRCONATE POWDER

MSDS Date:08/19/1992

FSC:3439

NIIN:01-380-4385

MSDS Number: BYSGT

=== Responsible Party ===

Company Name:METCO INC, SUB OF THE PERKIN-ELMER CORP

Address:1101 PROSPECT AVENUE

City:WESTBURY

State:NY

ZIP:115

90-2724

Country:US

Info Phone Num:516-334-1300

Emergency Phone Num:202-483-7616/800-424-9300(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 OXIDE

CAS:7440-67-7

RTECS #:ZH7070000

Fraction by Wt: 75.0%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

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

Ingred Name:MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000

Fraction by Wt: 22.0%

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

Ingred Name:CALCIUM OXIDE

CAS:1305-78-8

RTECS #:EW3100000

Fraction by Wt: 0.5%

L (SILICON DIOXIDE)
CAS:112945-52-5
RTECS #:VV7310000
Fraction by Wt: 1.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:6 MG/M3
ACGIH TLV:10 MG/M3

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ZIRCONIUM OXIDE:INHAL HAZ.NUISANCE
DUST.CAN IRRIT SKIN/MUC MEMB. MAGNESIUM OXIDE:INHAL/S
KIN HAZ.MAY
CAUSE METAL FUME FEVER,RESP DISTRESS,MUC MEMB.EYE IRRIT. HAFNIUM
OXIDE:INHAL/EYE/SKIN HAZ.IRRIT RESP TRACT.MILD SKIN/EYE IRRIT.
CALCIUM OXIDE:SKIN/EYE/INHAL HAZ.IRRIT NOSE/THROAT.SKIN/EYE
BURNS,DERM. (SUPPLEMENTAL)
Effects of Overexposure:EYE IRRIT, SKIN IRRIT/DERMATITIS, INHAL IRRIT,
INGESTION POSSIBLE IRRITATION.
Medical Cond Aggravated by Exposure:RESPIRATORY CONDITONS, DERMATITIS.
TARGET ORGANS:LUNGS, SKIN, RESPIRATORY TRACT, EYES, UPPER RESP
TRACT.

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===== First Aid Measures =====

First Aid:EYE:FLUSH W/WATER.IF IRRIT PERSISTS CONSULT PHYSICIAN.
SKIN:WASH W/SOAP/WATER. INHAL:EXPOSE TO FRESH AIR.CONSULT PHYSICIAN
IF IRRIT OR RESPIRATORY DISTRESS PERSISTS. INGEST:CONSULT
PHYSICIAN.

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

Extinguishing Media:USE CLASS D EXTINGUISHERS.
Fire Fighting Procedures:TREAT AS METALLIC FIRE.
Unusual Fire/Explosion Hazard:FINE METAL DUSTS ARE
FLAMM.MAY EXPLODE
WHEN EXPOSED TO HEAT/FLAME/OXIDIZERS.HEATED ZIRCONIUM MAY REACT
W/WATER OR STEAM TO PRODUCE FLAMM HDYROGEN GAS.

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===== Accidental Release Measures =====

Spill Release Procedures:VACUUM LOOSE POWDER ONLY W/VACUUMS EQUIPPED
W/HEPA FILTRATION. WET WIPE AREA CLEAN. DO NOT DRY SWEEP. AVOID
GENERATING AIRBORNE DUST.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES.STORE
PROD CONTNRS IN WELL-VENTI,CLEAN,COOL,DRY AREA.STORE IN MANNER TO
MINIMIZE PUNCTURES/BREAKAGE OF CNTNRS.

Other Precautions:AVOID INGEST/INHAL/EXCESSIVE SKIN CONTACT.AVOID
CONTACT OF POWDER W/WATER/OXIDIZERS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESPIRATOR APPROVED BY NIOSH W/FILTER CARTRIDGES
APPROVED FOR DUST/FUME/MISTS SHOULD BE WORN AT ALL TIMES DURING

THERMAL SPRAY PROCESS TO PROTECT OPERATOR FROM EXPO TO
DUST/FUMES.RESP MAY ALSO BE WORN WHEN PRODUCT HDNGL GENERATES
DUST.

Ventilation:PRODUCT SHOULD BE USED W/APPROPRIATE LOCAL EXHAUST
VENTILATION PROVIDED.

Protective Gloves:ALUMINIZED GLOVE-PLASMA SPRAY,RUBB-OTHER

Eye Protection:SEE OTHER PRECAUTION SECTION OF MSDS.

Other Protective Equipment:EAR PROT-EXCESS NOISE LEVELS.OTHER APPRO
PROT CLOTH AS NECESSARY-PROD HDLG EXCESS SKIN CONTACT.EYEWASH
STATIONS,WASH FAC

Work Hygiene

Practices:WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

HEALTH HAZ:SILICON DIOXIDE:INHAL/SKIN/EYE HAZ.INHAL:SILICOSIS,SKIN/EYE
IRRIT DUE TO ABRASIVENESS.

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

HCC:V7

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

OXIDI

ZERS, ACIDS, SULFUR.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

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

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

Waste Disposal Methods:EMPTY PRODUCT CNTNRS/PROD WASTE/CLEANING MEDIA
SHOULD BE STORED & DISPOSE OF ACCORDING TO APPROPRIATE
LOC/STATE/FED REGULATORY GUIDELINES.

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