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

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

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:1159 0-2724

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

======= Composition/Information on Ingredients ========

Ingred Name:ZIRCONIUM OXIDE

CAS:7440-67-7

RTECS #:ZH7070000 Fraction by Wt: 75.0%

Other REC Limits: NONE RECOMMENDED

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SHA 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%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:2 MG/M3; 9495

Ingred Name:SILICA GEL (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

============= 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/SK

IN 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: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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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.
========= 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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Han dling 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 SECITON 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 Hygien

ic Practices: WASH HANDS AFTER HANLDING.

Supplemental Safety and Health

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

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 OXIDIZ

ERS, 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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