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

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:11590-2724 Country:US Info Phone Num:516-334-1300 **Emergency Phone Nu** m: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

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:MAGN

ESIUM 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

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/SKIN 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.

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.

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.HEAT ED ZIRCONIUM MAY REACT W/WATER OR STEAM TO PRODUCE FLAMM HDYROGEN GAS.

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 Precautions:STORE AWAY FROM INCOMPATIBLES.STOR E

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 Hygienic 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 Indicator/Materials to Avoid:YES OXIDIZERS, 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.

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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