View NSN Online: https://aerobasegroup.gr/nsn/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: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 

Ingred Name:ZIRCONIUM OXIDE CAS:7440-67-7 RTECS #:ZH7070000 Fraction by Wt: 75.0% Other REC Limits:NONE RECOMMENDED O 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

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

<ul> <li>IN HAZ.MAY</li> <li>CAUSE METAL FUME FEVER, RESP DISTRESS, MUC MEMB.EYE IRRIT. HAFNIUM</li> <li>OXIDE:INHAL/EYE/SKIN HAZ.IRRIT RESP TRACT.MILD SKIN/EYE IRRIT.</li> <li>CALCIUM OXIDE:SKIN/EYE/INHAL HAZ.IRRIT NOSE/THROAT.SKIN/EYE</li> <li>BURNS, DERM. (SUPPLEMENTAL)</li> <li>Effects of Overexposure:EYE IRRIT, SKIN IRRIT/DERMATITIS, INHAL IRRIT,</li> <li>INGESTION POSSIBLE IRRITATION.</li> <li>Medical Cond Aggravated by Exposure:RESPIRATORY CONDITONS, DERMATITIS.</li> <li>TARGET ORGANS:LUNGS, SKIN, RESPIRATORY TRACT, EYES, UPPER RESP</li> <li>TRACT.</li> </ul>
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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.
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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 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.

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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vided 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.