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METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 201B-NS-1 ZIRCONIUM OXIDE POWDER -- 3439-01-391-8640

Product ID:METCO 201B-NS-1 ZIRCONIUM OXIDE POWDER MSDS Date:05/05/1993 FSC:3439 NIIN:01-391-8640 MSDS Number: BYSHV === Responsible Party === Company Name: METCO INC, SUB OF THE PERKIN-ELMER CORP Address:1101 PROSPECT AVENUE City:WESTBURY State:NY ZIP:11590-272 4 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:1314-23-4 RTECS #:ZH8800000 Fraction by Wt: 91.5% Other REC Limits:NONE RECOMMENDED

Ingre

d Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 5.0% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9495

Ingred Name:ORGANIC BINDER Fraction by Wt: 1.0% Other REC Limits:NONE RECOMMENDED

Ingred Name:HAFNIUM OXIDE CAS:12055-23-1 Fraction by Wt: 2.0% Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICON (II) OXIDE CAS:10097-28-6 Fraction by Wt: 0.5% Other REC Limits:NONE RECOMMENDED

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/SKIN HAZ.NUISANCE DUST.IRRIT RESP TRACT.SKIN IRRIT,SKIN GRANULOMAS.CALCIUM CARBONATE:INHAL/EYE HAZ.LUNG/EYE IRRIT.ORG BINER:MILDLY TOXIC BY INGEST.GENERAL PUROSE FOOD ADDITIVE.HA FNIUM OXIDE:SKIN/EYE/INHAL HAZ.RESP TRACT IRRIT,SK IN/EYE MILD IRRIT.SILICON OXIDE:INHAL/EYE HAZ.RESP TRACT IRRIT,(SUPPL) Effects of Overexposure:POSSIBLE EYE IRRIT, POSSIBLE SKIN IRRIT, INHAL IRRIT, POSSIBLE INGEST IRRIT. Medical Cond Aggravated by Exposure:CONSULT PHYSICIAN. TARGET ORGANS:RESP TRACT, SKIN, LUNGS, EYES, GASTROINTESTINAL TRACT.

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

Extinguishing Media:NON-FLAMMABLE.

Fire Fighting Procedures:NONE.

Unusual Fire/Explosion Hazard: IF IGNITED, CALCIUM CARBONATE MAY PRODUCE CARBON MONOXIDE/CARBON DIOXIDE.

Spill Release Procedures: VACUUM LOOSE POWDER ONLY W/VACUUMS EQUIPPED W/HEPA FILTRATION.

VACUUMS APPROPRIATE FOR USE W/METALLIC DUSTS SHOULD BE UTILIZED. WIPE AREA CLEAN. DO NOT USE WAER FOR CLEAN UP OPERATIONS. DO NOT DRY SWE EP. AVOID GENERATING AIRBORNE DUST. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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 Precautio

ns:AVOID INGEST/INHAL/EXCESSIVE SKIN CONTACT.AVOID

CONTACT OF POWDER W/WATER/OXIDIZERS.GOGG:COMBUST SPRAY SHADE#5,PLASMA SPRAY UP TO 40KW SHADE#9,40-60KW SHADE#10,>60KW SHADE#11.GOGG MAY BE APPROPRIATE T O AVOID EYE IRRIT DURING OTHER PROD HNDL

======= 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.AL APRON-PLASMA SPRAY PROCESS.OTH APPRO PROT CLOTH AS NECESSARY-PROD HDLG EXCESS SKIN(SUPP)

Work Hygienic Practices:WASH HANDS

AFTER HANLDING. Supplemental Safety and Health HAZ DECOMP PROD:POWDER.ORGBINDER EMIT TOX NA2O FUMES WHEN HEAT TO DECOMP. HEA HAZ:SILICOSIS,PULM FIB(IBROTIC CHANGES ON XRAY EXAM,SHORT OF BREATH,COUGH,DECR CHEST EXPAN,LESS WORK CAP,INCRE SUSC TO TUB ERCULOSIS)CONJ,EYE IRRIT. OTH PROT EQPT:CONTACT,EYEWASH STATION,WASH FACI.

HCC:N1 Melt/Freeze Pt:M.P/F.P Text:4500F,2482C Spec Gravity:2.1 Solubility in Water:NEGAT IVE. Appearance and Odor:POWDER, NO ODOR.

Stability Indicator/Materials to Avoid:YES
OXIDIZERS,ACIDS,SULFUR,NI(NO3)2,COMBUST.SODIUM OXIDE IN ORG BINER VERY REACTIVE-COMBINES VIOL W/WATER TO FORM NAOH.
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 CERAMIC (SUPP)

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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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