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METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 301NS, BORON NITRIDE CERMET POWDER -- 3439-01-380-4104

Product ID:METCO 301NS, BORON NITRIDE CERMET POWDER

MSDS Date:04/26/1993

FSC:3439

NIIN:01-380-4104

MSDS Number: BYSGP === Responsible Party ===

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

Address:1101 PROSPECT AVENUE

City:WESTBURY

State:NY ZIP:11590-27

24

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: ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 3.5%

Other REC Limits: NONE RECOMMENDED

OS

HA PEL:15 MG/M3 DUST

ACGIH TLV:10 MG/M3 DUST; 9495

Ingred Name: BORON NITRIDE

CAS:10043-11-5 Fraction by Wt: 5.5%

Other REC Limits: NONE RECOMMENDED

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

Ingred Name: CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 14.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9495

EPA Rpt Qty:

1 LB

DOT Rpt Qty:1 LB

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: 8.0%

Other REC Limits: NONE RECOMMENDED

Ingred Name: NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 65.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9495

Ingred Name: ORGANIC BINDER

Fraction by Wt: 3.0%

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:AL:PNEUMOCOIOSIS.PULM/SKIN/EYE IRRIT
FRM ABRASIVE ACTION.UNDER NORMAL USE/CONDITIONS AL203 FORM.BN:IRRIT
RESP TRACT AS NUISANCE DUST.ALSO IRRIT EYE FRM MECHANICAL
IRRIT.INGRED INERT/NONTOXIC.SIO2:IRRI T LUNG/EYE.SILICOSIS,PULM
FIBROSIS(FIBROTIC CHANGES ON XRAY EXAM,SHORTNESS OF
BREATH,COUGH,DECR CHEST EXPAN,LESS(SUPPLE)

## **Explanation**

of Carcinogenicity:PER MSDS:CONTAINS NICKEL POTENTIAL CARCINOGEN IN IARC & LISTED IN NTP & HEXAVALENT CHROMIUM FRM THERMAL SPRAY PROCESS.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Effects of Overexposure:EYE IRRIT, POSSIBLE DERMATITIS, INHLA IRRIT, PNEUMOCONIOSIS, POSSIBLE INGEST IRRIT. REPEATED ORG BINDER INHAL & SKIN CONTACT MAY CAUSE LIVER, KIDNEY DMG, RESP & SKIN SENSITIZATION.

Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN. TARGET ORGANS: LUNGS, SKIN, EYES, RESP TRACT, LIVER, KIDNEYS.

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

First Aid:EYE:FLUSH W/SUFFICIENT AMTS OF 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.

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

Flash Point:NONE

Extinguishing Media: USE CLASS D EXTINGUISHERS. Fire Fighting Procedures: TREAT AS METALLIC FIRE.

Unusual Fire/Explosion Hazard:

FINE METAL DUSTS FLAMM; MAY EXPLO WHEN

EXPO TO HEAT/FLAME/OXIDIZERS.ALUMINUM FLAMM SOLID;DO NOT EXPO TO WATER/MOISTURE.CR/FE IGN IF AIRBORNE W/IGN SOURCE.(SUPPL)

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

Spill Release Procedures: VACUUM LOOSE POWDER ONLY W/VACUUMS EQUIPPED W/HEPA FILTRATION. VACUUMS APPROPRIATE FOR USE W/METALLIC DUST SHOULD BE UTILIZED. WIPE AREA CLEAN. DO NOT USE WATER FOR CLEAN UP OPERATIONS. DO NOT SWEEP. AVOID GENERATING AIRBOR

NE 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 Precautions: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,>6  OKW  SHADE#11.GOGG MAY BE APPROPRIATE D URING OTHER PHASES OF PROD HNDLG.
====== 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 VENTIL ATION 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.OTHER APPRO PROT CLOTH AS NECESSARY,EYEWASH STATION.WASH FACI
Work Hygienic Practices:WASH HANDS AFTER HANLDING.
Supplemental Safety and Health FIRE/EXPLO HAZ:ORGBINDER BURN/HI TEMP PROD CO/PHENOL. HAZ DECOMP PROD:HAZ DECOMP PROD FOR BN:CO2,CO,ALCOHOL VAP. HEALTH HAZ:WORK
CAPACITY,INCR SUSCEPT TO TUBERBULOSIS.CR:PNEUMOCONIOSIS,MUC MEMEIRRIT/ ULCER,DERM/SENS/CR LESIONS.BRONCHOGENIC,LUN/STOMACHECANC.FE:SIDEROSIS.NI:CANC.ORGBINDER:IRRIT,BURN SENS,CONVUL,PULMEDE
========= Physical/Chemical Properties ==========
HCC:V7 Spec Gravity:4.0 Solubility in Water:NEGATIVE. Appearance and Odor:POWDER, NO ODOR.
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES OXIDIZERS,ACIDS,SUL

FUR,NI(NO3)2,COMBUSTIBLES.ORG BINDER IMCOMPATIBLE
W/ACIDS,BASES,ALDEHYDES,HALOGENS,STRONG OXIDIZERS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:OZONE & NITRIC ACID FORMED BY PLASMA
FLAME(SIMILAR TO WELDING FUMES).THIS ACTION INDEPENDENT OF
POWDER.(SUPPLEMENTAL)

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

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

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