

METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 312NS/312NS-G NICKEL  
CHROMIUM,ALUMINUM/BENTONITE COMPO -- 3439-01-391-8644

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Product Identification  
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Product ID:METCO 312NS/312NS-G NICKEL CHROMIUM,ALUMINUM/BENTONITE COMPO

MSDS Date:03/24/1993

FSC:3439

NIIN:01-391-8644

MSDS Number: BYSHX

=== Responsible Party ===

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

Address:1101 PROSPECT A

VENUE

City:WESTBURY

State:NY

ZIP:11590-2724

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

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Composition/Information on Ingredients  
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Ingred Name:ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt:

4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 DUST

ACGIH TLV:10 MG/M3 DUST; 9495

Ingred Name:BENTONITE

CAS:1302-78-9

RTECS #:CT9450000

Fraction by Wt: 21%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 (DUST)

ACGIH TLV:5 MG/M3 (DUST)

Ingred Name:CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9495

EPA Rpt Qty:1 LB

-02-0  
RTECS #:QR5950000  
Fraction by Wt: 71%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9495

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:AL:PUPNEUMOCONIOSIS,PULM/SKIN/EYE  
IRRIT DUE TO ABRASIVE ACTION.UNDER NORMAL USE/CONDITIONS AL2O3 MAY  
BE FO  
RMED.BENTONITE:INHAL HAZ.NOSE/THROAT/LUNG IRRIT.CR:INHAL/SKIN  
HAZ.PNEUMOCONIOSIS,MUC MEM IRRIT /ULCER.DERM,SENS/CR  
LESIONS.HEXAVALENT CR FRM THERMAL SPRAY PROCESS-CAUSE  
BRONCHOGENIC,LUNG/STOMACH CANC.(SUPPLEMENTAL)  
Explanation of Carcinogenicity:PER MSDS:NICKEL LISTED IN NTP &  
IARC.HEXAVALENT CR CAUSES CANCER OF LUNG/STOMACH.  
Effects of Overexposure:EYE IRRIT, SKIN IRRIT, DERMATITIS, INHAL IRRIT,  
PNEUMOCONIOSIS, POSSIBLE INGEST IRRIT.  
Medical Cond Aggravated by Exposure:CONSU  
LT A PHYSICIAN. TARGET  
ORGANS:RESP TRACT, SKIN, LUNGS, EYES.

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

First Aid:EYE:FLUSH W/WATER.IF IRRIT PERSISTS CONSULT PHYSICIAN.  
SKIN:WASH W/SOAP/WATER. INHAL:EXPOSE TO FRESH AIR. IRRIT/RESP  
DISTRESS PERSISTS CONSULT PHYSICIAN. 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.CHROMIUM MAY IGN IF AIRBORNE W/IGN SOURCE.

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

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 WATER FOR CLEAN UP  
O

PERATIONS. DO NOT SWEEP. AVOID GENERATING AIRBORNE DUST.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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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 CONTACT OF MATL W/WATER/OXIDIZERS.DO NOT  
INGEST.AVOID INHAL/PROL/REP SKIN CONTACT/EYES.GOGG:COMBUST SPRAY  
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HADE#5,PLASMA SPRAY UP TO 40KW SHADE#9,40-60KW SHADE#10,>60KW  
SHADE#11.GOGG MAY BE APPR OPRIATE DURING OTHER PHASES OF PROD HNDL

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Exposure Controls/Personal Protection  
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Respiratory Protection:NIOSH APPROVED RESP PROTECTION AS APPROPRIATE  
FOR AIR CONCEN & APPROVED FOR METAL/DUST/FUMES SHOULD BE WORN @ALL  
TIMES DURING THERMAL SPRAY PROCESS & WHEN PRODUCT HANDLING  
GENERATES DUST. RESP MAY ALS O BE WORN WHEN PROD HNDLG GENERATES  
DUST

Ventilation:USE

ONLY WITH ADEQUATE LOCAL 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.OTHER APPRO PROT CLOTH AS NECESSARY-PROD HDLG EXCESS  
(SUPPLE)

Work Hygienic Practices:WASH HANDS AFTER HANLDING.

Supplemental Safety and Health

HEALTH HAZ:NI:INHAL/SKIN HAZ.LUNG/NASAL SINUSES CANCER,DERM. OTHER PROT  
EQPT:SKIN CONTACT.EYEWASH  
STATION,WASH FACILITIES.

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Physical/Chemical Properties  
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HCC:N1

Spec Gravity:6.0

Solubility in Water:NON-SOLUBLE.

Appearance and Odor:GRAY POWDER, NO ODOR.

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

OXIDIZERS, ACIDS, SULFUR, NI(NO3)2, COMBUSTIBLES.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:OZONE & NITRIC ACID ARE FORMED BY  
PLASMA FL

AME(SIMILAR TO WELDING FUMES).THIS ACTION IS INDEPENDENT  
OF METAL POWDER.

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

Waste Disposal Methods:EMPTY PRODUCT CONTAINERS/PRODUCT WASTE/CLEANING  
MEDIA SHOULD BE STORED & DISPOSED OF ACCORDING TO APPROPRIATE  
LOCAL, STATE AND FEDERAL REGULATORY GUIDELINES.

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