

METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 308NS NICKEL GRAPHITE POWDER --  
3439-01-382-1289

===== Product Identification =====

Product ID:METCO 308NS NICKEL GRAPHITE POWDER  
MSDS Date:08/19/1992  
FSC:3439  
NIIN:01-382-1289  
MSDS Number: BYSHH  
=== 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 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:NICKEL (SARA 313) (CERCLA)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 84.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA

PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9495

Ingred Name:COBALT (SARA 313)  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 0.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.02 MG/M3; A3; 9495

Ingred Name:CARBON GRAPHITE, SYNTHETIC  
CAS:7440-44-0  
RTECS #:FF5250100  
Fraction by Wt: 15.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST; 9495

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:NICKEL:INHAL/SKIN HAZ.MAY CAUSE

LUNG/NASAL SINUSES CANCER. COBALT:INHAL/SKIN

HAZ.PROGRESSIVE,DIFFUSE PNEUMONIA,RESP SENS CHARACTERIZED BY

COUGH,WHEEZING,SHORTNESS OF BREATH.ALLERGIC DERM OR ECZEMA.SUSPECT

CARCINOGEN. CARBON GRAPHITE(SYNTHETIC):INHAL/EYE HAZ.UPPER RESP

TRACT/EYES IRRIT.

Explanation of Carcinogenicity:PER MSD

S:NICKEL IS LISTED IN NTP/IARC.

COBALT SUSPECTED CARCINOGEN.

Effects of Overexposure:EYE IRRIT, POSSIBLE SKIN DERMATITIS, INHAL

IRRIT, PNEUMOCONIOSIS, POSSIBLE INGEST IRRIT.

Medical Cond Aggravated by Exposure:CONSULT A PHYSICIAN. TARGET

ORGANS:LUNGS, SKIN,UPPER RESPIRATORY TRACT, EYES.

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

First Aid:EYE:FLUSH W/SUFFICIENT AMT OF WATER.IF IRRIT PERSISTS CONSULT  
PHYSICIAN. SKIN:WASH W/SOAP/WATER. INHAL:EXPOSE TO FRE

SH AIR.

CONSULT PHYSICIAN IF IRRIT/RESP 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:MODERATE FIRE HAZARD IN THE FORM OF DUST WHEN EXPOSED TO FLAME.

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

Spill Release Procedures:VACUUM LOOSE POWDER ONLY W/VAC UUMS EQUIPPED

W/HEPA FILTRATION. WET WIPE AREA CLEAN. DO NOT DRY SWEEP. AVOID GENERATING AIRBORNE DUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

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 INH

AL/PROL/REP SKIN CONTACT/EYES.GOGG:COMBUST SPRAY

SHADE#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

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESP NIOSH APPROVED W/FILTER CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN @ALL TIMES DURING THERMAL SPRAY PROCESS TO PROTECT OPERATOR FROM EXPOSURE TO DUST/FUMES. RESPIRATORS MAY ALSO BE WO RN WHEN PRODUCT HANDLING 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.OTHER APPRO PROT CLOTH AS NECESSARY-PROD HDLG EXCESS (SUPPLE)

Work Hygienic Practices:WASH HANDS AFTER HANLDING.

Supplemental Safety and Health

OTHER PROT EQPT:SKIN CONT

ACT.EYEWASH STATION,WASH FACILITIES.

===== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:2200F,1204C

Spec Gravity:7.6

Solubility in Water:NEGATIVE

Appearance and Odor:POWDER, NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

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

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 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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