

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:U

S

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 P

EL: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

=====
===== 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 MSDS

: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.

=====
===== 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 FRES

H 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/VACU
UMS 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 INHA
L/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 CONTA

CT.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.

Disclaimer (provided 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.