

METCO INC, SUB OF THE PERKIN-ELMER CORP -- METCO 72F-NS -- 3439-01-382-1225

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Product Identification  
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Product ID:METCO 72F-NS

MSDS Date:08/29/1994

FSC:3439

NIIN:01-382-1225

MSDS Number: BXPWQ

=== Responsible Party ===

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

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201

Country:US

Info Phone Num:516-334-1300

Emerg

ency Phone Num: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:TUNGSTEN CARBIDE

CAS:12070-12-1

RTECS #:YO7250000

Fraction by Wt: 87%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG W/M3

ACGIH TLV:5 MG W/M3

Ingred Name:COBALT (SARA

313)  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 12%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.02 MG/M3; A3; 9495

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 1%  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TUNGSTEN CARBIDE:INHAL/SKIN/EYE  
HAZ.MAY  
CAUSE LUNG DMG & RESP TRACT/EYE/SKIN IRRIT.  
COBALT:SKIN/INHAL HAZ.MAY CAUSE PROGRESSIVE,DIFFUSE PNEU,RESP  
SENS,ALLERGIC DERM/ECZEMA. IRON:INHAL HAZ.MAY CAUSE SI  
DEROSIS(BENIGN PNEUMOCONIOSIS). INGEST:POSSIBLE IRRITATION.  
Explanation of Carcinogenicity:PER MSDS:COBALT FOUND TO BE CONFIRMED  
CARCINOGEN BY OTHER REF GUIDE SOURCES SUCH AS CARC ACTIVE CHEM FRM  
VAN NOSTRAND.  
Effects of Overexposure:LUNG DAMAGE, RESP TRACT/EYE/SKIN IRRITATION.  
PROGRESSIVE, DIFFUSE PNEUMONIA, RES  
P SENSITIZATION CHARACTERIZED BY  
COUGH, WHEEZING & SHORTNESS OF BREATH. ALLERGIC DERMATITIS OR  
ECZEMA. SIDEROSIS (BENIGN PNEUMOCONIOSIS).  
Medical Cond Aggravated by Exposure:CONSULT A PHYSICIAN. TARGET  
ORGANS:TUNGSTEN CARBIDE:LUNGS,SKIN,EYE; COBALT:LUNGS,SKIN;  
IRON:LUNGS.

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

First Aid:EYE:FLUSH W/WATER FOR @LEAST 15-20MINS OPENING EYELIDS. IRRIT  
PERSISTS CONSULT PHYSICIAN. SKIN:WASH W/SOAP/WATER. INHAL:EXPO

TO

FRESH AIR. CONSULT PHYSICIAN IF IRRIT/RESP DISTRESS PERSISTS.  
INGEST:CONSULT PHYSICIAN.

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

Extinguishing Media:USE CLASS D FIRE EXTINGUISHER.

Fire Fighting Procedures:TREAT AS METALLIC FIRE. USE NIOSH/MSAH  
APPROVED SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE  
CLOTHING IF INVOLVED IN FIRE.

Unusual Fire/Explosion Hazard:FINE METAL DUSTS FLAMM;MAY EXPLO WHEN  
EXPO TO HEAT/FLAME/STRONG OXIDIZERS.TUNGST  
EN CARBIDE OXIDIZES ON  
HEATING IN AIR;BURNS IN FLUORINE @RT.COBALT MAY IGN (SUP)

===== 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  
OPERATIONS. DO NOT SWEEP. AVOID GENERATING AIRBORNE DUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FRM INCOMPATIBLES.STORE  
CNTNRS IN WELL-VENTILATED CLEAN COOL DRY AREA.STORE IN MANNER TO  
MIN PUNCTURES & BREAKAGE OF CNTNRS.

Other Precautions:AVOID INGEST/INHAL/EXCESSIVE SKIN CONTACT. AVOID  
CONTACT OF POWDER W/WATER & OXIDIZERS. GOGG:LENS SHADES:COMBUST  
SPRAY SHADE #5,PLASMA SPRAY UP TO 40KW SHADE #9,40-60KW SHADE  
#10,>60KW SHADE #11.

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

Respiratory Protection:A RESPIRATOR APPROVED BY NIOSH W/FILTER  
CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN @ALL TIMES  
DURING THERMAL SPRAY PROCESS TO PROTECT OPERATOR FRM EXPO TO  
DUST/FUMES.RESP MAY ALSO BE WORN WHEN PROD HNDLG GENERATES DUST.

Ventilation:PRODUCT SHOULD BE USED WITH APPROPRIATE LOCAL EXHAUST  
VENTILATION PROVIDED.

Protective Gloves:ALUMINIZED-PLASMA SPRAY;RUBB-OTHER.

Eye Protection:GOGGLES. (SEE OTHER PRECAUTIONS)

Other Protective

Equipment:EAR PROT FOR EXCESS NOISE LEVEL.ALUMINIZED  
APRON FOR PLASMA SPRAY.OTHER APPRO PROT CLOTH AS  
NECESSARY.EYEWASH.WASH FACIL

Work Hygienic Practices:WASH WELL AFTER HANDLING.

Supplemental Safety and Health

FIRE/EXPLO HAZ:IF AIRBORNE IN PRESENCE OF IGN SOURCE/SPONTANEOUSLY.IRON  
MAY IGN IF AIRBORNE IN PRESENCE OF IGN SOURCE.

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

HCC:N1

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

Spec Gravity:4.5-6.3

Appearance and Odo

r:POWDER, NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:AVOID ALL SOURCES OF IGNITION, DUST  
GENERATION, & WATER.

Hazardous Decomposition Products:OZONE & NITRIC OXIDE ARE FORM BY  
PLASMA FLAME(SIMILAR TO WELDING FUMES).THIS ACTION IS INDEPENDENT  
OF METAL POWDER.

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

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aste Disposal Methods:EMPTY PROD CNTNRS,PROD WASTE,& CLEANING MEDIA  
SHOULD BE STORED & DISPOSED OF ACCORDING TO APPROPRIATE LOCAL,  
STATE AND FEDERAL REGULATORY GUIDELINES. CONTAINS COBALT:SUB TO  
REPORTING RQMTS OF SARA SE C313 & ON HAZ AIR POLLUTANTS EPA CLEAN  
AIR ACT.

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