

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

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
Emergency 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

===== Composition/Information on Ingredients =====

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 =====
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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 =====
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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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