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METCO PERKIN-ELMER -- METCO 73F-NS-1 -- 3439-01-380-6737

Product ID:METCO 73F-NS-1

MSDS Date:02/03/1993

FSC:3439

NIIN:01-380-6737

MSDS Number: BYCSD === Responsible Party ===

Company Name: METCO PERKIN-ELMER Address: 1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201 Country:US

Info Phone Num:516-334-1300;202-483-7616

Emergency Phone Num:516-334-13 00;800-424-9300(CHEMTREC)

CAGE:FO877

=== 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

Company Name: METCO PERKIN-ELMER

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201

Phone: (516) 334-1300

CAGE:FO877

Company Name: SULZER METCO (US) INC

Address:1101 PROSPECT AVE

Box:City:WESTBURY

State:NY

ZIP:11590-2724 Country:US Phone:516334-1300 CAGE:01FK3

======= Composition/Information on Ingredients ======== Ingred Name: TUNGSTEN CARBIDE CAS:12070-12-1 RTECS #:YO7250000 Fraction by Wt: 82% % Other REC Limits: NONE RECOMMENDED OSHA PEL:5 MG W/M3 ACGIH TLV:5 MG W/M3 Ingred Name: COBALT (SARA III) CAS:7440-48-4 RTECS #:GF8750000 Fraction by Wt: 17% % Other REC Limits: NONE RECOMMENDED OSHA PEL:0.05 MG/M3 ACGIH TLV:0.05 MG/M3;DUST 9192 Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 1% % Other REC Limits: NONE RECOMMENDED LD50 LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION MAY CAUSE LUNG DAMAGE, PNEUMONIA, SIDEROSIS AND RESPIRATORY TRACT IRRITATION. SKIN AND EYE CONTACT MAY CAUSE IRRITATION.MAY CAUSE ALLERGIC DERMATITIS, ECZEMA. Explanation of Carcinogenicity:C **OBALT IS FOUND TO BE A CONFIRMED** CARCINOGEN BY OTHER REFERENCE GUIDE SOURCES SUCH AS VAN NOSTRAND. Effects of Overexposure: EYE IRRITATION, SKIN IRRITATION, DERMATITIS, ECZEMA, LUNG DAMAGE, RESPIRATORY TRACT IRRITATION, COUGH, WHEEZING, SHORTNESS OF BREATH, BENIGN PNEUMOCONIOSIS. Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:EYE: FLUSH WITH SUFFICIENT AMOUNTS OF WATER. IF IRRITATION

PERSISTS, CONSULT A PHYSICIAN. SKIN: WASH WITH SOAP AND WATER. INHALATION: EXPOSE TO FRESH AIR. CONSULT A PHYSICIAN IF IRRITATION OR RESPIRAT ORY DISTRESS PERSISTS. INGESTION: CONSULT A PHYSICIAN.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:USE CLASS D FIRE EXTINGUISHER.

Fire Fighting Procedures:TREAT AS A METALLIC FIRE.

Unusual Fire/Explosion Hazard: FINE METAL DUSTS

ARE FLAMMABLE AND MAY

EXPLODE WHEN EXPOSED TO HEAT, FLAME OR STRONG OXIDIZERS.

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

Spill Release Procedures: VACUUM LOOSE POWDER ONLY WITH VACUUMS EQUIPPED WITH HEPA FILTRATION. VACUUMS APPROPRIATE FOR USE WITH METALLIC DUSTS SHOULD BE UTILIZED. WIPE THE AREA CLEAN. DO NOT USE WATER FOR CLEAN UP OPERATIONS. DO NOT SWEEP. AVOID GENERATING AIRBORNEDUST. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES. STORE PRODUCT CONTAINERS IN A WELL-VENTILATED, CLEAN, COOL, DRY AREA. MINIMIZE PHYSICAL DAMAGE.

Other Precautions: AVOID INGESTION, INHALATION AND EXCESSIVE SKIN CONTACT. AVOID CONTACT OF POWDER WITH WATER AND OXIDIZERS.

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

Respiratory Protection: A RESPIRATOR APPROVED BY NIOSH WITH FILTER CARTRID

GES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIMES DURING THE THERMAL SPRAY PROCESS TO RPOTECT THE OPERATOR FROM EXPOSURE TO DUST AND FUMES.

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

Protective Gloves: ALUMINIZED GLOVES DURING PROCESSING

Eye Protection: CHEMICAL WORKER'S GOGGLES

Other Protective Equipment: HEARING PROTECTION, ALUMINIZED APRON, APPROPRIATE CLOTHING TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH HAND

S THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.
Supplemental Safety and Health
EYE WASH STATIONS ARE RECOMMENDED.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:2200-2300F

Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN

Spec Gravity:4.5 - 6.3 Viscosity:NOT GIVEN

Evaporation Rate & Dr. Reference: NOT GIVEN

Solubility in Water:NOT GIVEN
Appearance and Odor:POWDER,
NO ODOR

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES
OXIDIZERS, ACIDS, SULFUR, NI(NO3)2, COMBUSTIBLES.
Stability Condition to Avoid:HEAT, FLAME, IGNITION SOURCES
Hazardous Decomposition Products:OZONE AND NITRIC ACID ARE FORMED BY
THE PLASMA FLAME.

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

Waste Disposal Methods: EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEAN

ING MEDIA SHOULD BE STORE AND DISPOSED OF ACCORDING TO THE APPROPRIATE LOCAL, STATE AND FEDERAL REGULATORY GUIDELINES.

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