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SULZER METCO (US) INC -- METCO 72F-NS -- 3439-01-382-1225

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

Product ID:METCO 72F-NS MSDS Date:01/13/1998

FSC:3439

NIIN:01-382-1225 Status Code:A

MSDS Number: CKMJP === Responsible Party ===

Company Name: SULZER METCO (US) INC

Address:1101 PROSPECT AVE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201 Country:US

Info Phone Num:516-334-1300 Emergency Phone Num:516-334-1

300/202-483-7616

Resp. Party Other MSDS Num.:50-329 Chemtrec Ind/Phone:(800)424-9300

CAGE:01FK3

=== Contractor Identification ===

Company Name: SULZER METCO (US) INC

Address:1101 PROSPECT AVE

Box:City:WESTBURY

State:NY

ZIP:11590-2724 Country:US

Phone:516-334-1300

CAGE:01FK3

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

Ingred Name: TUNGSTEN CARBIDE

CAS:12070-12-1 RTECS #:YO7250000

= Wt:87.

Ingred Name:COBALT

CAS:7440-48-4

RTECS #:GF8750000

= Wt:12.

OSHA PEL:0.1 MG/M3

ACGI

H TLV:0.02 MG/M3

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 = Wt:1.

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

LD50 LC50 Mixture: NONE PROVIDED BY MFR.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM, SKIN, EYES, & GASTROINTESTINAL TRACT. INHALATION: MAY CAUSE LUNG DAMAGE & RESPIRATORY SYSTEM IRRITATION. MAY CAUSE PROGRESSIVE,

DIFFUSE PNEUMONIA, RESPIRATORY SENSI TIZATION. MAY CAUSE SIDEROSIS (BENIGN PNEUMOCONIOSIS). INGESTION: MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM & GASTROINTESTINAL TRACT. SKIN: MAY CAUSE ALLERGIC DERMATITIS OR ECZEMA. EYES: MAY C AUSE IRRITATION.

Explanation of Carcinogenicity: NONE PROVIDED BY MFR.

Effects of Overexposure:EYE: POSSIBLE IRRITATION. SKIN: POSSIBLE IRRITATION, DERMATITIS, ECZEMA. INHALATION: POSSIBLE IRRITATION TO THE RESPIRATORY SYSTEM, RESPIRATORY

SENSITIZATION CHARACTERIZED BY

COUGH, WHEEZING & SHORTNE SS OF BREATH. INGESTION: POSSIBLE IRRITATION TO THE RESPIRATORY SYSTEM & GASTROINTESTINAL TRACT. Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN

First Aid:EYE: FLUSH EYE WITH WATER FOR AT LEAST 15 TO 20 MINS WHILE HOLDING EYELID OPEN. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. SKIN: WASH WITH SOAP & WATER. IF IRRITATION PERSISTS, CONSULT A

PHYSICIAN. INHALATION: EXPOSE TO FRESH AIR. CONSULT A PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS PERSISTS. INGESTION: CONSULT A PHYSICIAN.

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

Extinguishing Media:USE CLASS D FIRE EXTINUGISHER
Fire Fighting Procedures:TREAT AS A METALLIC FIRE. USE NIOSH/MSHA
APPROVED SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE
CLOTHING IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard: FINE METAL DUSTS ARE FLAMM

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EXPLODE WHEN EXPOSED TO HEAT, FLAME OR STRONG OXIDIZERS. TUNGSTEN CARBIDE OXIDIZES ON HEATING IN AIR; BURNS IN FLUORINE AT ROOM TEMPERATURE. COBALT MAY IGNITE IF A IRBORNE IN THE PRESENCE OF AN IGNITION SOURCE OR SPONTANEOUSLY. IRON MAY IGNITE IN THE PRESENCE OF AN IGNITION SOURCE.

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

Spill Release Procedures: VACUUM LOOSE POWDER ONLY WITH VACUUMS EQUIPPED WITH HEPA FILTERATION. VACUUMS APPROPRIA

TE 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 AIRBORNE DUST. Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATABLES. STORE PRODUCT CONTAINERS IN A WELL-VENTILATED, CLEAN, COOL & DRY AREA. STORE IN A MANNER TO MINIMIZE PUNCTURES & BREAKAGE OF CONTAINERS.

Other Preca

utions: AVOID INGESTION, INHALATION & EXCESSIVE SKIN CONTACT.

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

Respiratory Protection:NIOSH-APPROVED REPIRATOR WITH FILTER CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIMES DURING THE THERMAL SPRAY PROCESS TO PROTECT THE OPERATOR FROM EXPOSURE TO DUST & FUMES. RESPIR ATORS MAY ALSO BE WORN WHEN PRODUCT HANDLING GENERATES DUST.

Ventilation:PRODUCT SHOULD BE USED WITH THE APPROPRIATE LOCAL EXHAUS T

VENTILATION PROVIDED.

Protective Gloves: ALUMINIZED GLOVES FOR PLASMA SPRAY PROCESS, RUBBER OR APPROPRIATE AS NEEDED.

Eye Protection:USE THE APPROPRIATE LENS SHADES FOR PROCESS USED.
Other Protective Equipment:EAR PROTECTION AS APPROPRIATE. AN ALUMINIZED APRON IS TO BE WORN DURING THE PLASMA SPRAY PROCESS. OTHER APPROPRIATE PROTECTIVE CLOTHING MAY BE WORN AS NECESSARY DURING PRODUCT HANDLING TO AVOID CONTACT.

Supplemental Safety and Health

======= Physical/Chemi

HCC:N1 Melt/Freeze Pt:M.P/F.P Text:2200 TO 2300 DEG F Decomp Temp:Decomp Text:NONE PROVIDED BY MFR. Spec Gravity:4.5 TO 6.3 (H20=1) Viscosity:NONE PROVIDED BY MFR. Solubility in Water:INSOLUBLE Appearance and Odor:POWDER, NO ODOR Percent Volatiles by Volume:NONE PROVIDE Corrosion Rate:NONE PROVIDED BY MFR
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES TUNGSTEN CARBIDE IS INCOMPATABLE WITH FLUORI NE, CHLORINE, TRIFLUORIDE, OXIDES OF NITROGEN & LEAD DIOXIDE. COBALT IS INCOMPATIBLE WITH STRONG OXIDIZERS & AMMONIUM NITRATE. Stability Condition to Avoid:NONE PROVIDED BY MFR. Hazardous Decomposition Products:OZONE & NITRIC OXIDE ARE FORMED BY THE PLASMA FLAME (SIMILAR TO WELDING FUMES). THIS ACTION IS INDEPENDENT OF METAL POWDER. Conditions to Avoid Polymerization:WILL NOT OCCUR
========== Ecological Information =============
Ecological:NOT PROVIDED
=== =================================
Transport Information:SEE TRANSPORTATION DATA.
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SARA Title III Information:SULFURIC ACID IS EHS WIT

cal Properties ========

H RQ = 1000 LB. LEAD IS 313 CHEMICAL

Federal Regulatory Information:SULFURIC ACID CERCLA RQ = 1000 LB. LEAD CERCLA RQ = 10 LB

State Regulatory Information:NOT PROVIDED

============ Other Information ==============================

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