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SULZER METCO (US) INC -- METCO 45C-NS,45VF-NS,AMDRY 316,318,X-40,XPT-412

3439-01-408-0859

Product ID:METCO 45C-NS,45VF-NS,AMDRY 316,318,X-40,XPT-412

MSDS Date:05/21/1996

FSC:3439

NIIN:01-408-0859 Status Code:A

MSDS Number: CHZCS === Responsible Party ===

Company Name: SULZER METCO (US) INC

Address:1101 PROSPECT AVE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-020

1

Country:US

Info Phone Num:516-334-1300/800-424-9300(CHEMTREC)

Emergency Phone Num:516-334-1300/800-424-9300(CHEMTREC)

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

Company Name: SULZER PLASMA TECHNIK INC

Address:1972 MEIJER DR

Box:84310 City:TROY State:MI

ZIP:48084-0310

Country:US

Phone:313-288-1200

CAGE:53654

====== Composition/Information on I

ngredients =======

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 1%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name: MANGANESE (SARA 313)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C, 5 MG/M3 (FUME) ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:IRON CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: 1%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 (TDUST)

**ACGIH TLV:5** 

MG/M3 (OXIDE FUME)

Ingred Name: NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 10%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9596

Ingred Name: CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 25%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: COBALT (SARA 313)

CAS:7440-48-4

RTECS #:GF8750000 Fraction by Wt: 55%

Other REC Limits: NONE RECO

**MMENDED** OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3; A3; 9596 Ingred Name: TUNGSTEN, AS SOLUBLE COMPOUND CAS:7440-33-7 RTECS #:YO7175000 Fraction by Wt: 7% Other REC Limits: NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3/3 STEL; 9596 =========== 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 Chroni c:EYES: CONJUNCTIVAL IRRITATION, LACRIMATION. SKIN: IRRITATION, DERMATITIS, SENSITIZATION, CHROME LESIONS, DISCOLORATION, ECZEMA. INHALATION: IRRITATION OF RESPIRATORY SYSTEM, SHORTNESS OF BREATH, COUGH, MUCOUS MEMBRANE

IRRITATION/ULCERATION. INGESTION: IRRITATION OF GI TRACT, LOSS OF

MUSCULAR COORDENATION, CONFUSION, CONVULSIONS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM: CLASSIFIED

CARCINOGENIC BY ACGIH, IARC, NTP. COBALT: ACGIH CLASSIFIED A3 ANIMAL CARCINOGEN.

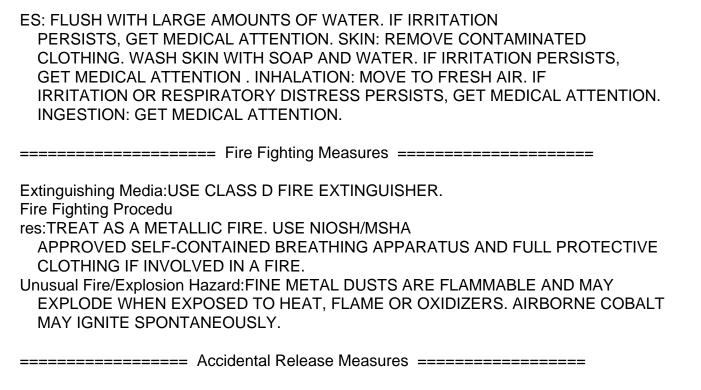
Effe

cts of Overexposure:EYES: CONJUNCTIVAL IRRITATION, LACRIMATION.

SKIN: IRRITATION, DERMATITIS, SENSITIZATION, CHROME LESIONS, DISCOLORATION, ECZEMA. INHALATION: RESPIRATORY SYSTEM IRRITATION, SHORTNESS OF BREATH, COUGH, MUCOUS M EMBRANE IRRITATION AND ULCERATION. INGESTION: GI TRACT IRRITATION, LOSS OF MUSCULAR COORDENATION, CONFUSION, CONVULSIONS.

Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN.

First Aid:EY



Spill Release Procedures: VACUUM LOOSE POWDER USING VACUUMS APPROPRIATE FOR HANDLING METALLIC DUSTS AND ARE E QUIPPED WITH HEPA FILTRATION.

WIPE THE AREA CLEAN. DO NOT USE WATER FOR CLEAN UP OPERATIONS. DO NOT SWEEP. AVOID GENE RATING DUST.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

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

Other Precautions: AVOID INGESTION, INHALATION, A ND EXCESSIVE SKIN CONTACT.

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

Respiratory Protection:WEAR AN NIOSH APPROVED RESPIRATOR WITH FILTER CARTRIDGES APPROVED FOR DUST/FUMES/MISTS DURING THERMAL SPRAY PROCESS. RESPIRATORS MAY ALSO BE WORN WHEN HANDLING GENERATES DUST Ventilation:PRODUCT SHOULD BE USED WITH APPROPRIATE LOCAL EXHAUST VENTILATION PROVIDED.

Protective Gloves:ALUMINIZED GLOVES DURING PLASMA SPRAYING Eye Protection:WEAR GOGGLES APPROPRIATE FO

R OPERATION.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING DURING PRODUCT HANDLING AND PRODUCT APPLICATION TO AVOID EXCESSIVE SKIN CONTACT.

Work Hygienic Practices:WASH FACILITIES AND EYE WASH STATION ARE RECOMMENDED.

Supplemental Safety and Health

EAR PROTECTION MUST BE WORN WHEN OPERATOR IS SUBJECTED TO EXCESSIVE NOISE LEVELS. AN ALUMINIZED APRON IS TO BE WORN DURING THE PLASMA SPRAY PROCESS. RUBBER OR OTHER APPROPRIATE GLOVES MAY BE WORN AS N ECESSARY

DURING PRODUCT HANDLING, OTHERTHAN PLASMA SPRAYING, TO AVOID EXCESSIVE SKIN CONTACT.

======= Physical/Chemical Properties	
HCC:N1 Melt/Freeze Pt:M.P/F.P Text:2000F,1093C Spec Gravity:3.0 Solubility in Water:INSOLUBLE Appearance and Odor:POWDER, NO ODOR.	

Stability Indicator/Materials to Avoid:YES
CHLORINE,FLUORINE,OXIDIZERS,CALCIUM,CESIUM
CARBIDE,CARBONATES,ACIDS,SULFUR,SELENIUM,COMBUST
IBLES,NICKEL

NITRATE, BROMINE.

Stability Condition to Avoid:CREATING AIRBORNE DUST. AVOID EXCESSIVE HEAT, FLAMES AND IGNITION SOURCES.

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

Conditions to Avoid Polymerization: WILL NOT OCCUR.

	Disposal Considerations	
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Waste Disposal Methods:EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEA

## NING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO THE APPROPRIATE LOCAL, STATE, AND FEDERAL REGULATORY GUIDELINES.

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