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SULZER METCO (US) INC -- AMDRY 962 -- 3439-01-211-6522

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

Product ID:AMDRY 962 MSDS Date:06/01/2000

FSC:3439

NIIN:01-211-6522 Status Code:A

MSDS Number: CLNPK === Responsible Party ===

Company Name: SULZER METCO (US) INC

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)424-930

0

Resp. Party Other MSDS Num.:MSDS-NO: 50-424

Chemtrec Ind/Phone:(800)424-9300

CAGE:NO615

=== Contractor Identification ===

Company Name: SULZER METCO (US) INC

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

State:NY

ZIP:11590-0201 Country:US

Phone:516-334-1300

CAGE:NO615

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

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 67% OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3 TWA

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

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gred Name:CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 22% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3

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

Ingred Name: ALUMINIUM

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 10% OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:YTTRIUM

CAS:7440-65-5

RTECS #:ZG2980000 Fraction by Wt: 1% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of

Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:INHALAITION:IRRITATION TO THE RESPIRATORY SYSTEM, CNS DEPRESSION, CANCERS OF THE LUNG AND NASAL SINUSES, MAY CAUSE PNEUMOCONIOSIS AND MUCOUS MEMBRANE IRRITATION OR ULCERATION, MAY CAUSE IRRITATION TO THE GASTRINTESTINAL TRACT. CHRONIC INHALATION MAY CAUSE DAMAGE TO THE LIVER&BLOOD CLOTTING MECHANISM.INGESTION:IRRITATION TO THE RESPIRATORY SYSTEM& GASTROINTESTINAL TRACT, LOSS OF MUSCULAR COORDINATION, CO

NFUSION&CONVULSION.SKIN:CAUSES DERMATITIS,SENSITIZATION OR CHROME LESIONS, IRRITATION.EYES:CONJUNCTIVAL IRRITATION, LACERATION. TARGET ORGANS: CNS, RESPIRATORY SYSTEM, GASTROINTESTINAL TRACT, SKIN, E YES.

Explanation of Carcinogenicity:IARC CLASSIFICATION GROUP 2 B POSSIBLE CARCINOGEN TO HUMAN. NTP CLASSIFIES NICKEL AS REASONABLY ANTICIPATED TO BE CARCINOGEN. HEXAVALENT CHROMIUM IS ACGIH CLASSIFIED A1 CONFIRMED HUMAN CARCINOGEN AND IARC CLASSIFICATION GROUP 1 CARCINO

GEN TO HUMANS. NTP CLASSIFIES HEXAVALENT CHROMIUM AS KOWN TO BE CARCINOGEN.

Effects of Overexposure:EYE: POSSIBLE CONJUNCTIVAL IRRITATION,
LACRIMATION. SKIN: POSSIBLE IRRITATION, DERMATITIS, EXZEMA,
SENSITIZATION OR CHROME LESIONS, DISCOLORATION. INHALATION:
POSSIBLE IRRITATION TO THE RESPIRATORY SY STEM, NUCOUS MEMBRANE
IRRITATION OR ULCERATION. INGESTION: POSSIBLE IRRITATION TO THE
RESPIRATORY SYSTEM AND GASTROINTESTINAL TRACT, LOSS OF MUSCULAR
COORDINATION. CONFUSI

ON AND CONVULSIONS.

Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN.

First Aid:EYE: FLUSH EYE WITH WATER FOR AT LEAST 15-20 MINUTES WHILE HOLDING EYELID OPEN. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. SKIN: WASH WITH SOAP AND 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 ===============

Flash Point: NOT PROVIDED BY

Extinguishing Media: USE CLASS D FIRE EXTINGUISHER

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 DUSTA ARE FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT, FLAME OR OXIDIZERS. CHROMIUM AND YTTRIUM MAY IGNITE IF AIRBO

RNE IN THE PRESENCE OF AN IGNITION SOURCE. ALUMINUM IS A FLAMMABLE SOLI D, DO NOT EXPOSE TO WATER OR MOISTURE.

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

Spill Release Procedures:APPROVED RESPIRATORY EQUIPMENT, PROTECTIVE CLOTHING, GLOVES AND SAFEY GLASSES SHOULD BE WORN TO PREVENT CONTACT OR INHALATION DURING THE CLEANUP OF PRODUCT SPILLS. COLLECT MATERIAL BY WET SWEEPING, DR Y SWEEPING WITH A SWEEPING COMPOUND OR BY VACUUM CLEANING WITH AN EXP

LOSION PROOF APPARATUS EQUIPPED WITH A HIGH EFFIEIENCY PARTICULATE AIR FILTER. SALVAGE MATERIAL FOR ON-SITE REUSE.SEE OTHER INFORM Neutralizing Agent:NOT PROVIDED BY MFR

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

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

Other Precautions: AVOID INGESTION, INHA

LATION AND EXCESSIVE SKIN CONTACT.

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

Respiratory Protection: A RESPIRATOR APPROVED BY NIOSH 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 AND FUME S. RESPIRATORS MAY ALSO BE WORN WHEN PRODUCT HANDLING GENERATES DUST.

Ventilation:PRODUCT SHOULD BE USED WITH THE APPROPRIATE LOCAL EXHAUST VENTILA

TION PROVIDED.

Protective Gloves: ALUMINIZED GLOVES TO BE WORN DURING PLASMA SPRAY PROCESS. SEE SUPP DATA

Eye Protection:THE FOLLOWING LENS SHADES ARE RECOMMENDED FOR THE PROCESS INDICATED:SEE SUPP DA

Other Protective Equipment:EYE WASH STATION(S) IS/ARE RECOMMENDED. WASH FACILITIES ARE RECOMMENDED. EAR PROTECTION MUST BE WORN WHEN THE OPERATOR IS SUBJECTED TO EXCESSIVE NOISE LEVELS. (REFER TO THE APPROPRIATE REGULATORY

Work Hygienic Practices: NOT PROVIDED BY MFR

Supplemental

Safety and Health

RUBBER OR OTHER APPROPRIATE GLOVES MAY BE WORN AS NECESSARY DURING OTHER PHASES OF PRODUCT HANDLING.EYE PROTECT: COMBUSTION SPRAYING SHADE # 5, PLASMA SPRSYING UP TO 40 KW SHADE #9, 40-60 KW SHADE #10 &GREATER THEN 60 KW SHADE # 11. GOGGLES MAY BE APPROPRIATE DURING OTHER PHASES OF PRODUCT HANDLING.

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

HCC:T6

Decomp Temp:Decomp Text:NOT PROVIDED BY MFR

Viscosity: NOT PROVIDED BY MFR

Solubility in

Water:INSOLUBLE
Appearance and Odor:POWDER, NO ODOR
Percent Volatiles by Volume:NOT PROVIDED
Corrosion Rate:NOT PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES

NICKEL IS INCOMPATIBLE WITH ACIDS, SULFUR, SELENIUM WOOD, OTHER COMBUSTIBLES& NICKEL NITRATE. CHROMIUM IS INCOMPATIBLE W/ STRONG OXIDIZERS. ALUMINUM IS INCOMPATIBLE W/ STRONG OXIDIZERS, ACIDS AND HAONGENATED HYDROCARBONS, YTTRIUM

Stability Condition to

Avoid:NOT PROVIDED BY MFR

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

Conditions to Avoid Polymerization: WILL NOT OCCUR

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

Waste Disposal Methods:EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEANING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO THE APPROPRIATE LOCAL, STATE AND FEDERAL REGULATORY GUI DELINES.

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

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onsibility for the suitability of this information to their particular situation.