

SULZER PLASMA TECHNIK INC -- METCO 58NS, SP 9837, AMDRY 500A, 500B, 500C AND 500F --
3439-01-380-7146

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

Product ID:METCO 58NS, SP 9837, AMDRY 500A, 500B, 500C AND 500F

MSDS Date:05/09/1996

FSC:3439

NIIN:01-380-7146

Status Code:A

MSDS Number: CLQZN

=== Responsible Party ===

Company Name:SULZER PLASMA TECHNIK INC

Address:1101 PROSPECT AVENUE

Box:1006

City:WESTBURY

S

tate:NY

ZIP:11590-0201

Country:US

Info Phone Num:516-334-1300

Emergency Phone Num:800-424-9300(CHEMTREC)

Resp. Party Other MSDS Num.:50-122 REVISION NO. 7

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO725

=== Contractor Identification ===

Company Name:SULZER PLASMA TECHNIK INC

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City:WESTBURY

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ZIP:11590-0201

Country:US

Phone:516-334-1300

CAGE:UO725

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

Ingred Name:COPPER (SARA 313) (CERCLA)

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AS:7440-50-8
RTECS #:GL5325000
= Wt:59.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME/1 DUST
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
= Wt:36.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:INDIUM
CAS:7440-74-6
RTECS #:NL1050000
= Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.1 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM,
GASTROINTESTINAL TRACT, SKIN, EYES. INHALATION MAY CAUSE IRRITATION
TO THE UPPER RESPIRATORY SYSTEM, NASAL MUCOUS MEMBRANES, CNS
DEPRESSION, CANCER OF THE LUNGS AND NASAL SINUSES, SHORTNESS OF
BREATH AND PULOMANRY EDEMA. INGESTION
MAY CAUSE IRRITATION TO THE
RESPIRATORY SYSTEM AND GASTROINTESTINAL TRACT, LOSS OF MUSCULAR
COORDINATION. SKIN :POSSIBLE DERMATITIS, MAY CAUSE DISCOLORATION
OF THE HAIR AND SKIN. INGESTION: MAY CAUSE IRRITATION TO THE UPPER
RESPIRATORY SYSTEM AND GASTROINTESTINAL TRACT, LOSS OF MUSCULAR
COORDINATION, CONFUSION AND CONVULSIONS.
Explanation of Carcinogenicity:NICKEL ACGIH CLASSIFIED A1 CONFIRMED
HUMAN CARCINOGEN. IARC CLASSIFIED GROUP 1 CARCINOGENIC TO HUMANS.
NTP CL

ASSIFIES NICKEL AS REASONABLY ANTICIPATED TO BE CARCINOGEN.

Effects of Overexposure: EYE/INGESTION: POSSIBLE IRRITATION. SKIN: POSSIBLE DERMATITIS, MAY CAUSE DISCOLORATION OF THE HAIR AND SKIN. INHALATION: POSSIBLE IRRITATION TO THE UPPER RESPIRATORY SYSTEM AND THE NASAL MUCOUS MEMBRANES, METAL FUME FEVER AND METALLIC/SWEET TASTE.

Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN.

===== First Aid Measures =====

First Aid: EYE: FLUSH WITH WATER FOR AT LEAST 15-20 MINUTES WHILE HOLDING EYELID OPEN. IF IRRITATION PERSISTS CONSULT PHYSICIAN. SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. INHALATION: EXPOSE TO FRESH AIR. CONSULT PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS PERSISTS. INGESTION: CONSULT PHYSICIAN.

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

Flash Point: NONE
Extinguishing Media: USE CLASS D FIRE EXTINGUISHER.
Fire Fighting Procedures: TREAT AS 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 FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT, FLAME, OR 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 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 FROM INCOMPATIBLES. STORE CONTAINERS IN WELL-VENTILATED, CLEAN, COOL AND DRY AREA. STORE IN MANNER TO MINIMIZE PUNCTURES AND BREAKAGE OF CONTAINERS.
Other Precautions: AVOID INGESTION, INHALATION AND EXCESSIVE SKIN

CONTACT.

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===== 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 THERMAL SPRAY PROCESS TO PROTECT OPERATOR FROM EXPOSURE TO DUST AND FUMES. RESPIRATORS MAY ALSO BE WORN WHEN PRODUCT HANDLING GENERATES DUST.

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

Protective Gloves:ALUMINIZED GLOVES DURING PLASMA SPRAY PROCESS OTHERWISE RUBBER GLOVES.

Eye Protection:GOGGLES. (SEE OTHER INFORMATION).

Other Protective Equipment:EAR PROTECTION, WASH FACILITY, EYE WASH STATION. ALUMINIZED APRON FOR PLASMA SPRAY PROCESS. OTHER APPROPRIATE PROTECTIVE CLOTHING MAY BE WORN AS NECESSARY DURING PRODUCT HANDLING TO AVOID SKIN CONTACT.

Work Hygienic Practices:(HMIS: WASH WELL AFTER HANDLING).

Supplemental Safety and Health

OTHER DESIGNATION: COPPER-NICKEL INDIUM ALLOY POWDER

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

HCC:T6

Melt/Freeze Pt:M.P/F.P Text:2000-2300 DEG F

Decomp Temp:Decomp Text:NOT PROVIDED BY MFR

Spec Gravity:3.7 (H2O=1)

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

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

Stability Indicator/Materials to Avoid:YES

COPPER IS INCOMPATIBLE

E WITH OXIDIZERS, ALKALIS, SODIUM, AZIDE AND ACETYLENE. NICKEL INCOMPATIBLE WITH: ACIDS, SULFUR, SELENIUM, WOOD, OTHER COMBUSTIBLES AND NICKEL NITRATE.

Stability Condition to Avoid: FINE METAL DUSTS ARE FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT, FLAMES.

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

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Toxicological Information =====

Toxicological Information: NOT PROVIDED.

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Ecological Information =====

Ecological: NOT PROVIDED.

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Disposal Considerations =====

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

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MSDS Transport Information =
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Transport Information: NOT PROVIDED.

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Regulatory Information =====

SARA Title III Information: COPPER AND NICKEL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF SARA AND SUPPLIER NOTIFICATION REQUIREMENTS (40CFR372).

Federal Regulatory Information: NICKEL IS ON THE LIST OF HAZARDOUS AIR POLLUTANTS UNDER SECTION 112 OF THE EPA CLEAN AIR ACT, 1990.

State Regulatory Information: NOT PROVIDED.

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

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