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PRAXAIR SURFACE TECHNOLOGIES INC -- CU-101 (PRODUCT CODE 033001-15) 3439-01-426-2051 Product ID:CU-101 (PRODUCT CODE 033001-15) MSDS Date:06/22/1994 FSC:3439 NIIN:01-426-2051 Status Code:A **MSDS Number: CJTBQ** === Responsible Party === Company Name: PRAXAIR SURFACE TECHNOLOGIES INC Address:1555 MAIN STREET City:INDIANAPOLIS State:IN ZIP:46224-3283 Country:US Info Phone Num:317-240-2650 Emergency Phone Num:317-240-2209 Preparer's Name: MICHELLE ALEXANDER Chemtrec Ind/Phone:(800)424-9300 CAGE:0FGH2 === Contractor Identification === Company Name: PRAXAIR SURFACE TECHNOLOGIES INC Address:1555 MAIN STREET Box:City:INDIANAPOLIS State:IN ZIP:46224-3283 Country:US Phone:317-240-2650 CAGE:0FGH2 Company Name: STARGHILL TECHNOLOGIES CORP Address:3850 OAKMAN BLVD Box:City:DETROIT State:MI ZIP:48204-1119 Country:US Phone:313-933-4141 Contract Num:SP0490-95-D-4037 CAGE:

0VYG8

Ingred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 Minumum % Wt:20. Maxumum % Wt:50. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name:COPPER CAS:7440-50-8 RTECS #:GL5325000 Minumum % Wt:50. Maxumum % Wt:75. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:INDIUM CAS:7440-74-6 RTECS #:NL1050000 Minumum % Wt:5. Maxumum % Wt:20. ACGIH TLV:0.1 MG/M3

====== Hazards Ide

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:ACUTE- SKIN: MAY CAUSE ALLERGIC DERMATITIS WITH PAPULAR FORMATION IN SUSCEPTABLE INDIVIDUALS, WHICH USUALLY OCCURS IN THE FOLD OF SKIN. MAY CAUSE ULCERS. EYES: MAY CAUSE IRRITATION. INGESTION: MAY CAU SE CENTRAL NERVOUS SYSTEM DEPRESSION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION AND CE NTRAL NERVOUS SYSTEM DEPRESSION. CHRONIC- MAY CAUSE SENSITIZATION IN SUSCEPTABLE INDIVIDUALS EYES: CAN C AUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, AND DAMAGE TO THE ALPHA CELLS OF THE PANCREAS. INHALATION: MAY CAUSE EMPYHSEMA OR PULMONARY FIBROTIC DISEASE. SKIN: MAY SPREAD TO T HE WHOLE BODY. Explanation of Carcinogenicity:NICKEL HAS BEEN DETERMINED TO CAUSE

CANCER IN EXPERMENTAL ANIMALS (IARC, NTP). NICKEL IS LISTED AS A PROBABLE HUMAN CARCINOG

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Effects of Overexposure:SKIN-MAY CAUSE ALLERGIC DERMATITIS, WITH REDNESS & PAPULAR FORMATION IN SUSCEPTIBLE INDIVIDUALS, WHICH USUALLY OCCURS IN THE FOLDS OF THE SKIN. MAY CAUSE ULCERS PROGRESSING TO DRY & SCALY SKIN, FEVER . EYE-MAY CAUSE IRRITATION, EXPERIENCED AS REDNESS & EXCESS REDNESS OF THE CONJUNCTIVA. SWALLOWING-MAY CAUSE NAUSEA, ABDOMIAL PAIN, VOMITING, DIARRHEA, CNS DEPRESSION, & BURNING SENSATION. INHALATION- MAY CAUSE RESPIRATORY TRACT IRRITATION WIT

H CHEST PAIN, VOMITING, DIARRHEA, BURNING SENSATION, & CNS DEPRESSION.

Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE. MAY ALSO AGGRAVATE AN EXISTING DERMATITIS.

First Aid:SWALLOWING-GIVE AT LEAST 2 GLASSES OF MILK OR WATER. INDUCE VOMITING, UNLESS PATIENT IS UNCONSCIOUS. CALL A PHYSICIAN. SKIN-WASH THOROUGHLY WITH SOAP AND WATER. I

NHALATION-REMOVE TO FRESH AIR. GIVE AR TIFICIAL RESPIRATION IF NOT BREATHING. OXYGEN MAY BE GIVEN IF NECESSARY. CALL A PHYSICIAN. EYES-FLUSH THOROUGHLY WITH PLENTY OF WATER. IF DISCOMFORT PERSISTS, SEEK MEDICAL ATTENTION, PREFERABLY AN OPT HALMOLOGIST.

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:USE SPECIAL DRY POWDER METAL EXTINGUISHING MATERIAL TO EXTINGUISH METAL FIRES. USE APPROPRIATE EXTINGUISHER TO

EXTINGUISH COMBUSTABLE MATERIALS THAT MAY BE IGNITED BY THERMAL FLAME.

Fire Fighting Procedures:CONSULT AND COMPLY WITH ANSI Z49.1 SAFETY IN WELDING AND CUTTING, NFPA51B STANDARD FOR FIRE PREVENTION IN USE OF CUTTING AND WELDING PROCESSES. NFPA51B OXYGEN-FUEL GAS SYSTEMS FOR WELDING AND CUTTING, AND NFPA58 STANDARD FOR THE STORAGE AND HANDLING OF LIQUIFIED PETROLEUM GASES.

Unusual Fire/Explosion Hazard: AIRBORNE DUST PARTICLES, ESPECIALLY METAL

DUST, AND ACCUMULATION OF SUCH SHOULD BE TREATED AS EXPLOSIVES. TO MINIMIZE DANGER FROM DUST EXPLOSIONS, ADEQUATE VENTILATION SHOULD BE PROVIDED TO SPRAY BOOT H IN ACCORDANCE WITH AMERICAN WELDING SOCIETY PUBLICATION AWSC2.1-73, AND ACGIH PUBLICATION "INDUSTRIAL VENTILATION".

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS AND DISPOSE OF PER WASTE DISPOSAL METHOD.

Other Precautions:CAUTION: WHEN THERMAL SPRAYING - ELECTRICITY CAN CAUSE FATAL SHOCK! DO NOT TOUCH LIVE ELECTRICAL PARTS! ARC RAYS CAN BURN EYES AND SKIN! WEAR RECOMMENDED EYE AND BODY PROTECTION. FUMES, GAS, & DUST CA N HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.

Respiratory Protection: DEPENDS UPON SPECIFIC USE, CONDITION, AND

LOCATION. IF THERE IS DUSTINESS, WEAR RESPIRATOR SELECTED PER OSHA 1910.134, AND OSHA 29 CFR 1910.252 AND ANSI Z49.1 Ventilation:LOCAL DUST PICK UP AND VENTILATION RECOMMENDED. Protective Gloves:NOT REQUIRED. Eye Protection:WHEN DUSTY USE GOGGLES PER OSHA 1910.13. Other Protective Equipment:SEE ANSI Z49.1, ANSI Z87.1, ANSI Z88.2 FOR HELMETS, FACE SHIELDS AND GOGGLES. Supplemental Safety and Health CAUTION: WHEN THERMAL SPRAYING-ELECTRICITY CAN CAUSE FATAL SHOCK! DO

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VE ELECTRICAL PARTS! ARC RAYS CAN BURN EYES AND SKIN! WEAR RECOMMENDED EYE ANDBODY PROTECTION. FUMES, GAS, AND DUST CAN HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR RESPIRATORS.(OTHER INFO)
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HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:N/VOLATILE Appearance and Odor:LIGHT COPPER COLOR POWDER
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Stability Indicator/Materials to Avoid:YES NONE KNOWN Stability Condition to Avoid:NONE KNOWN Hazardous Decomposition Products:WHEN THERMAL SPRAYING, DECOMPOSITION PRODUCTS WILL VARY WITH OPERATING CONDITIONS. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER- OXIDES, SUB-OXIDES, ETC.
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Waste Disposal Methods:DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS.
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Transport Information: PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1.
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SARA Title III Information:7440-02-0, NICKEL,