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PRAXAIR SURFACE TECHNOLOGIES INC -- CO-109 (PRODUCT CODE 032009-10) 3439-01-425-8425 Product ID:CO-109 (PRODUCT CODE 032009-10) MSDS Date:03/23/1994 FSC:3439 NIIN:01-425-8425 Status Code:A **MSDS Number: CJTHT** === Responsible Party === Company Name: PRAXAIR SURFACE TECHNOLOGIES INC Address:1555 MAIN STREET City:INDIANAPOLIS State:IN ZIP:46224-3283 Country:US Inf o 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

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Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 Minumum % Wt:5. Maxumum % Wt:20. OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB Ingred Name:COBALT CAS:7440-48-4 RTECS #:GF8750000 Minumum % Wt:50. Maxumum % Wt:75. OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3 Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Minumum % Wt:20. Maxumum % Wt:50. ACGIH TLV:10 MG/M3

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

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. EYES: MAY CAUSE IRRITATION. INHALATION: MAY CAUSE INTERSTITIAL PNEUMONITIS AND SENSITIZATION OF RESPIRATORY TRACT IN SUSCEPTIBLE INDIVIDUALS. CHRONIC- MAY CAUSE SENSITIZATION OF THE RESPIRATORY TRACT AND SKIN IN SUSCEPTABLE INDIVIDUALS. EYES: CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAND, AND DAMAGE TO THE ALPHA CELLS OF THE PANCREAS.

Explanation of Carcinogenicity:CHROMIUM HAS BEEN SHOWN TO CAUSE CANCER IN EXPERMENTAL ANIMALS (IARC, NTP) AND IS LISTED AS A HUMAN CARCINOGEN.

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fects of Overexposure:SKIN-MAY CAUSE REDNESS & PAPULAR FORMATION IN SUSCEPTIBLE INDIVIDUALS, WHICH USUALLY OCCURS IN THE FOLDS OF THE SKIN. EYE-MAY CAUSE IRRITATION, EXPERIENCED AS REDNESS & EXCESS REDNESS OF THE CONJUN CTIVA. SWALLOWING-MAY CAUSE NAUSEA, ABDOMIAL PAIN, VOMITING, DIARRHEA, & BURNING SENSATION. INHALATION-MAY CAUSE VOMITING, DIARRHEA, AND BURNING SENSATION.

Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR F IBROTIC 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. INHALATION-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 I

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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 I

N 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 ELECT RICAL 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.

HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION A

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 R
ECOMMENDED.
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 NOT TOUCH LIVE ELECTRICAL PARTS! ARC RAYS CAN BURN EYES AND SKIN!
WEAR RECOMMENDED EYE ANDBODY PROTECTION. FUMES, GAS, AND DUST CAN ND WEAR RESPIRATORS.(OTHER INFO)

HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:N/VOLATILE Appearance and Odor: DUSTY LIGHT GRAY POWDER 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. DECOM POSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER-OXIDES, SUB-OXIDES, ETC. Waste Disposal Methods: DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL **REGULATIONS.** Transport Information: PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1. 

SARA Tit le III Information:7440-47-3, CHROMIUM,