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PRAXAIR SURFACE TECHNOLOGIES INC -- CO-110 (PRODUCT CODE 032010-05)

3439-01-425-8430

Product ID:CO-110 (PRODUCT CODE 032010-05)

MSDS Date:01/22/1992

FSC:3439

NIIN:01-425-8430

Status Code:A

MSDS Number: CJSHS

=== 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:DELMAR BEIGHT 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:0VYG

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

Ingred Name: CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000

Minumum % Wt:20.

Maxumum % Wt:50.

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: ALUMINIUM

CAS:7429-90-5

RTECS #:BD0330000

Minumum % Wt:5.

Maxumum % Wt:20.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:YTTRI

UM

CAS:7440-65-5

RTECS #:ZG2980000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

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

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

Health Hazards Acute and Chronic: ACUTE- SKIN: MAY CAUSE ALLERGIC

DERMATITIS, USUALLY IN FOLDS OF SKIN. EYES: MAY CAUSE IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY ALSO CAUSE

INTERSITITIAL PNEUMONITIS & SENSI TIZATION OF THE RESPIRATORY TRACT IN SUSCEPTIBLE INDIVIDUALS. CHRONIC- MAY CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. EYES: CAN CAUSE CORNEAL DAMAGE, POLYCYTHEMIA, HYPERPLASIA OF THE THYROID GLAN D, & DAMAGE TO THE ALPHA CELLS OF THE PANCREAS.

Explanation of Carcinogenicity:CHROMIUM HAS BEEN SHOWN TO CAUSE CANCER IN EXPERMENTAL ANIMALS AND IS LISTED AS A HUMAN CARCINOGEN. Effects of Overexposure:ACUTE- SKIN: REDNESS & PAPULAR FORMATION IN

SUSCEPTABLE INDIVIDUALS. EYES: REDNESS & EXCESS REDNESS OF THE CONJUNCTIVA. INGESTION: MAY CAUSE NAUSEA, ABDOMINAL PAIN, VOMITING, DIARRHEA, & BURNING SENS ATION. INHALATION: MAY CAUSE VOMITING, DIARRHEA, & BURNING SENSATION.

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

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## 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 & WATER. INHALATION-REMOVE TO FRESH AIR. GIVE ARTI FICIAL 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 OPTHA LMOLOGIST. NOTE TO PHYSICIAN: THE HAZARDS OF THIS MATERIAL ARE MAINLY

DUE TO ITS SENSITIZING & MILD IRRITATING
PROPERTIES. THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF SHOULD BE
DIRECTED AT THE CONTRO L OF SYMPTOMS & THE CLINICAL CONDITION.

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

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 TH

**ERMAL** 

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 DANGE

R 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".

========= Accidental Release Measures ============
Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS AND DISPOSE OF PER WASTE DISPOSAL METHOD.
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Other Precautions: CAUTION: W

HEN 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.

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

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 NOT TOUCH LIVE ELECTRICAL PARTS! ARC RAYS CAN BURN EYES AND SKIN! WEAR RECOMMENDED EYE ANDBODY PRO

RESPIRATORS.(OTHER INFO) ======== Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:NONE Vapor Density:>AIR Appearance and Odor: DUSTY LIGHT GRAY POWDER ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES NONE KNOWN Stability Condition to Avoid: NONE KNOWN Hazardous Decomposition Products: WHEN THERMAL S PRAYING, DECOMPOSITION PRODUCTS WILL VARY WITH OPERATING CONDITIONS. DECOMPOSITION PRODUCTS OF NORMAL OPERATION FROM THIS THERMAL SPRAY POWDER-OXIDES, SUB-OXIDES, ETC ======= Disposal Considerations ============ Waste Disposal Methods: DISPOSE OF WASTE PER LOCAL, STATE, AND FEDERAL REGULATIONS. ======== MSDS Transport Information ============= Transport Information: PROPER SHIPPING NAME: METAL ALLOY POWDER NOI ITEM 136500 SUB 1. ========== Regulatory Information =========================== SARA Title III Information:7440-47-3, CHROMIUM,

HARM YOUR HEALTH. PROVIDE ENOUGH VENTILATION AND WEAR

TECTION. FUMES, GAS, AND DUST CAN